

# Acer ICONIA

## User Guide

Acer recommends...

### **Productivity Software**

***Work Great with Microsoft® Office 2010*** - Express your ideas, solve problems and simplify everyday projects with Office 2010.

***Photo editing*** - Easily edit and print your photos with Windows Live Photo Gallery. Then share them on Facebook, YouTube or Windows Live.

***Search & Decide with Bing*** -- Find and organize the answers you need using Bing™, so you can make faster, more informed decisions.

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Acer ICONIA User Guide

Original Issue: 11/2010

Model number: \_\_\_\_\_

Serial number: \_\_\_\_\_

Date of purchase: \_\_\_\_\_

Place of purchase: \_\_\_\_\_

# First things first

We would like to thank you for making an Acer computer your choice for meeting your mobile computing needs.

## Your guides

To help you use your Acer computer, we have designed a set of guides:

The **setup poster** helps you get started with setting up your computer.

The printed **Quick Guide** shows you the location of the components, ports and connectors of your computer. It also provides a handy reference tool to using the many unique features of this computer.

The **ICONIA User Guide** contains useful information applying to this product, and helps you to be more productive. This guide contains detailed information on such subjects as system utilities, data recovery, expansion options and troubleshooting. In addition it contains the general regulations and safety notices for your computer. It is available in Portable Document Format (PDF) and comes preloaded on your computer. Follow these steps to access it:

- 1 Click on  **Start > All Programs > Documentation.**
- 2 Click on **ICONIA User Guide.**



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**Note:** Viewing the file requires Adobe Reader. If Adobe Reader is not installed on your computer, clicking on the user guide link will run the Adobe Reader setup program first. Follow the instructions on the screen to complete the installation. For instructions on how to use Adobe Reader, please refer to the **Help and Support** menu.

**Warranty information** is included on a separate leaflet in the documentation pack included with your computer, and is specific to your home region. Your **International Travelers Warranty** booklet gives you information that is essential for obtaining technical support when traveling outside of your home country.

## Basic care and tips for using your computer


### Turning your computer on and off

To turn on the computer, simply press and release the power button in the right-hand hinge. Please refer to the **setup poster** for the location of the power button.

To turn the power off, do any of the following:

- Use the Windows shutdown command  
Click on **Start** then click on **Shut Down**.
- Use the power button

You can also put the computer in sleep mode by pressing the sleep hotkey

<Fn> +  (the <F4> button).



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**Note:** If you cannot power off the computer normally, press and hold the power button for more than four seconds to shut down the computer. If you turn off the computer and want to turn it on again, wait at least two seconds before powering up.

## Taking care of your computer

Your computer will serve you well if you take care of it.

- Do not expose the computer to direct sunlight. Do not place it near sources of heat, such as a radiator.
- Do not expose the computer to temperatures below 0° C (32° F) or above 50° C (122° F).
- Do not subject the computer to magnetic fields.
- Do not expose the computer to rain or moisture.
- Do not spill water or any liquid on the computer.
- Do not subject the computer to heavy shock or vibration.
- Do not expose the computer to dust or dirt.
- Never place objects on top of the computer.
- Do not slam the computer display when you close it.
- Never place the computer on uneven surfaces.

## Taking care of your AC adapter

Here are some ways to take care of your AC adapter:

- Do not connect the adapter to any other device.
- Do not step on the power cord or place heavy objects on top of it. Carefully route the power cord and any cables away from foot traffic.
- When unplugging the power cord, do not pull on the cord itself but pull on the plug.
- The total ampere ratings of the equipment plugged in should not exceed the ampere rating of the cord if you are using an extension cord. Also, the total current rating of all equipment plugged into a single wall outlet should not exceed the fuse rating.



## Taking care of your battery pack

Here are some ways to take care of your battery pack:

- Use only batteries of the same kind as replacements. Turn the power off before removing or replacing batteries.



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**Note:** If your battery requires replacing, please contact your nearest Acer service center. Do not attempt to replace the battery yourself.

- Do not tamper with batteries. Keep them away from children.
- Dispose of used batteries according to local regulations. Recycle if possible.

## Cleaning and servicing

When cleaning the computer, follow these steps:

- 1 Turn off the computer and remove the battery pack.
- 2 Disconnect the AC adapter.
- 3 Use a soft, moist cloth. Do not use liquid or aerosol cleaners.

If either of the following occurs:

- the computer has been dropped or the body has been damaged;
- the computer does not operate normally

Please refer to "**Frequently asked questions**" on page 82.

# Information for your safety and comfort

## Safety instructions

Read these instructions carefully. Keep this document for future reference. Follow all warnings and instructions marked on the product.

### Turning the product off before cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

### CAUTION when disconnecting the power source

Observe the following guidelines when connecting and disconnecting power to the power supply unit:

Install the power supply unit before connecting the power cord to the AC power outlet.

Unplug the power cord before removing the power supply unit from the computer.

If the system has multiple sources of power, disconnect power from the system by unplugging all power cords from the power supplies.

### CAUTION for accessibility

Be sure that the power outlet you plug the power cord into is easily accessible and located as close to the equipment operator as possible. When you need to disconnect power to the equipment, be sure to unplug the power cord from the electrical outlet.

### CAUTION for listening

To protect your hearing, follow these instructions.

- Increase the volume gradually until you can hear clearly and comfortably.
- Do not increase the volume level after your ears have adjusted.
- Do not listen to music at high volumes for extended periods.
- Do not increase the volume to block out noisy surroundings.
- Decrease the volume if you can't hear people speaking near you.

## Warnings

- Do not use this product near water.
- Do not place this product on an unstable cart, stand or table. If the product falls, it could be seriously damaged.
- Slots and openings are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
- Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind onto or into the product.
- To avoid damage of internal components and to prevent battery leakage, do not place the product on a vibrating surface.
- Never use it under sporting, exercising, or any vibrating environment which will probably cause unexpected short current or damage rotor devices, HDD, Optical drive, and even exposure risk from lithium battery pack.
- The bottom surface, areas around ventilation openings and AC adapter may get hot. To avoid injury, ensure they do not come in contact with your skin or body.
- Your device and its enhancements may contain small parts. Keep them out of the reach of small children.

## Using electrical power

- This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- Do not allow anything to rest on the power cord. Do not locate this product where people will walk on the cord.
- If an extension cord is used with this product, make sure that the total ampere rating of the equipment plugged into the extension cord does not exceed the extension cord ampere rating. Also, make sure that the total rating of all products plugged into the wall outlet does not exceed the fuse rating.
- Do not overload a power outlet, strip or receptacle by plugging in too many devices. The overall system load must not exceed 80% of the branch circuit rating. If power strips are used, the load should not exceed 80% of the power strip's input rating.
- This product's AC adapter is equipped with a three-wire grounded plug. The plug only fits in a grounded power outlet. Make sure the power outlet is properly grounded before inserting the AC adapter plug. Do not insert

the plug into a non-grounded power outlet. Contact your electrician for details.



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**Warning!** The grounding pin is a safety feature. Using a power outlet that is not properly grounded may result in electric shock and/or injury.



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**Note:** The grounding pin also provides good protection from unexpected noise produced by other nearby electrical devices that may interfere with the performance of this product.

- The system can be powered using a wide range of voltages; 100 to 120 or 220 to 240 V AC. The power cord included with the system meets the requirements for use in the country/region where the system was purchased. Power cords for use in other countries/regions must meet the requirements for that country/region. For more information on power cord requirements, contact an authorized reseller or service provider.

## Product servicing

Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.

Unplug this product from the wall outlet and refer servicing to qualified service personnel when:

- The power cord or plug is damaged, cut or frayed.
- Liquid was spilled into the product.
- The product was exposed to rain or water.
- The product has been dropped or the case has been damaged.
- The product exhibits a distinct change in performance, indicating a need for service.
- The product does not operate normally after following the operating instructions.



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**Note:** Adjust only those controls that are covered by the operating instructions, since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal condition.

## Guidelines for safe battery usage

This computer uses a Lithium-ion battery. Do not use it in a humid, wet or corrosive environment. Do not put, store or leave your product in or near a heat source, in a high temperature location, in strong direct sunlight, in a microwave oven or in a pressurized container, and do not expose it to temperatures over 60° C (140° F). Failure to follow these guidelines may cause the battery to leak acid, become hot, explode or ignite and cause injury and/or damage. Do not pierce, open or disassemble the battery. If the battery leaks and you come into contact with the leaked fluids, rinse thoroughly with water and seek medical attention immediately. For safety reasons, and to prolong the lifetime of the battery, charging will not occur at temperatures below 0° C (32° F) or above 40° C (104° F).

The full performance of a new battery is achieved only after two or three complete charge and discharge cycles. The battery can be charged and discharged hundreds of times, but it will eventually wear out. When the operation time becomes noticeably shorter than normal, buy a new battery. Use only the approved batteries, and recharge your battery only with the approved chargers designated for this device.

Use the battery only for its intended purpose. Never use any charger or battery that is damaged. Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object such as a coin, clip or pen causes direct connection of the positive (+) and negative (-) terminals of the battery. (These look like metal strips on the battery.) This might happen, for example, when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.

The capacity and lifetime of the battery will be reduced if the battery is left in hot or cold places, such as in a closed car in summer or winter. Always try to keep the battery between 15° C and 25° C (59° F and 77° F). A device with a hot or cold battery may not work temporarily, even when the battery is fully charged. Battery performance is especially limited in temperatures well below freezing.

Do not dispose of batteries in a fire as they may explode. Batteries may also explode if damaged. Dispose of batteries according to local regulations. Please recycle when possible. Do not dispose as household waste.

Wireless devices may be susceptible to interference from the battery, which could affect performance.

## Replacing the battery pack

The computer uses Lithium-ion batteries. Replace the battery with the same type as that which came bundled with your product. Use of another battery may present a risk of fire or explosion.



**Warning! Batteries may explode if not handled properly. Do not disassemble or dispose of them in fire. Keep them away from children. Follow local regulations when disposing of used batteries.**

### Telephone line safety

- Disconnect all telephone lines from the equipment when not in use and/or before servicing.
- To avoid the remote risk of electric shock from lightning, do not connect the telephone line to this equipment during lightning or thunderstorms.



**Warning! For safety reasons, do not use non-compliant parts when adding or changing components. Consult your reseller for purchase options.**

## Operating environment



**Warning! For safety reasons, turn off all wireless or radio transmitting devices when using your laptop under the following conditions. These devices may include, but are not limited to: wireless lan (WLAN), Bluetooth and/or 3G.**

Remember to follow any special regulations in force in any area, and always switch off your device when its use is prohibited or when it may cause interference or danger. Use the device only in its normal operating positions. This device meets RF exposure guidelines when used normally, and it and its antenna are positioned at least 1.5 centimeters (5/8 inches) away from your body (refer to the figure below). It should not contain metal and you should position the device the above-stated distance from your body. To successfully transmit data files or messages, this device requires a good quality connection to the network. In some cases, transmission of data files or messages may be delayed until such a connection is available. Ensure that the above separation distance instructions are followed until the transmission is completed. Parts of the device are magnetic. Metallic materials may be attracted to the device, and persons with hearing aids should not hold the device to the ear with the hearing aid. Do not place credit cards or other magnetic storage media near the device, because information stored on them may be erased.

## Medical devices

Operation of any radio transmitting equipment, including wireless phones, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy or if you have any questions. Switch off your device in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF transmissions.

**Pacemakers.** Pacemaker manufacturers recommend that a minimum separation of 15.3 centimeters (6 inches) be maintained between wireless devices and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers should do the following:

- Always keep the device more than 15.3 centimeters (6 inches) from the pacemaker
- Not carry the device near your pacemaker when the device is switched on. If you suspect interference, switch off your device, and move it.

**Hearing aids.** Some digital wireless devices may interfere with some hearing aids. If interference occurs, consult your service provider.

## Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles such as electronic fuel injection systems, electronic antiskid (antilock) braking systems, electronic speed control systems, and air bag systems. For more information, check with the manufacturer, or its representative, of your vehicle or any equipment that has been added. Only qualified personnel should service the device, or install the device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty that may apply to the device. Check regularly that all wireless equipment in your vehicle is mounted and operating properly. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the device, its parts, or enhancements. For vehicles equipped with an air bag, remember that air bags inflate with great force. Do not place objects, including installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed, and the air bag inflates, serious injury could result. Using your device while flying in aircraft is prohibited. Switch off your device before boarding an aircraft. The use of wireless teledevices in an aircraft may be dangerous to the operation of the aircraft, disrupt the wireless telephone network, and may be illegal.

## Potentially explosive environments

Switch off your device when in any area with a potentially explosive atmosphere and obey all signs and instructions. Potentially explosive atmospheres include areas where you would normally be advised to turn off your vehicle engine. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Switch off the device at refueling points such as near gas pumps at service stations. Observe restrictions on the use of radio equipment in fuel depots, storage, and distribution areas; chemical plants; or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), and areas where the air contains chemicals or particles such as grain, dust or metal powders. Do not switch the computer on when wireless phone use is prohibited or when it may cause interference or danger.

## Emergency calls

**Warning:** You cannot make emergency calls through this device. To make an emergency call you shall dial out through your mobile phone or other telephone call system.

## Disposal instructions

Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle. For more information on the Waste from Electrical and Electronics Equipment (WEEE) regulations, visit [www.acer-group.com/public/Sustainability/sustainability01.htm](http://www.acer-group.com/public/Sustainability/sustainability01.htm)



## Mercury advisory

For bulb-inside projectors or electronic products containing a non-LED-backlit-LCD/CRT monitor or display: Lamp(s) inside this product contain mercury and must be recycled or disposed of according to local, state or federal laws. For more information, contact the Electronic Industries Alliance at [www.eiae.org](http://www.eiae.org). For lamp-specific disposal information, check [www.lamprecycle.org](http://www.lamprecycle.org).





## ENERGY STAR



Acer's ENERGY STAR qualified products save your money by reducing energy cost and protecting the environment without sacrificing features or performance. Acer is proud to offer our customers products with the ENERGY STAR mark.

### What is ENERGY STAR?

Products that are ENERGY STAR qualified use less energy and prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency. Acer is committed to offer products and services worldwide that help customers save money, conserve energy and improve the quality of our environment. The more energy we can save through higher energy efficiency, the more we reduce greenhouse gases and the risks of climate change. More information refers to

**[www.energystar.gov](http://www.energystar.gov) or [www.energystar.gov/powermanagement](http://www.energystar.gov/powermanagement).**

Acer ENERGY STAR qualified products: (only for certain models)

- Produce less heat and reduce cooling loads, and warmer climates.
- Automatically go into "display sleep" and "computer sleep" mode after 10 and 30 minute of inactivity respectively.
- Wake the computer from sleep mode by pushing keyboard or moving mouse.
- Computers will save more than 80% energy when in Sleep mode.

ENERGY STAR and the ENERGY STAR mark are registered U.S. marks.

## Tips and information for comfortable use

Computer users may complain of eyestrain and headaches after prolonged use. Users are also at risk of physical injury after long hours of working in front of a computer. Long work periods, bad posture, poor work habits, stress, inadequate working conditions, personal health and other factors greatly increase the risk of physical injury.

Incorrect computer usage may lead to carpal tunnel syndrome, tendonitis, tenosynovitis or other musculoskeletal disorders. The following symptoms may appear in the hands, wrists, arms, shoulders, neck or back:

- Numbness, or a burning or tingling sensation.
- Aching, soreness or tenderness.
- Pain, swelling or throbbing.
- Stiffness or tightness.
- Coldness or weakness.

If you have these symptoms, or any other recurring or persistent discomfort and/or pain related to computer use, consult a physician immediately and inform your company's health and safety department.

The following section provides tips for more comfortable computer use.

## Finding your comfort zone

Find your comfort zone by adjusting the viewing angle of the monitor, using a footrest, or raising your sitting height to achieve maximum comfort. Observe the following tips:

- Refrain from staying too long in one fixed posture.
- Avoid slouching forward and/or leaning backward.
- Stand up and walk around regularly to remove the strain on your leg muscles.
- Take short rests to relax your neck and shoulders.
- Avoid tensing your muscles or shrugging your shoulders.
- Install the external display, keyboard and mouse properly and within comfortable reach.
- If you view your monitor more than your documents, place the display at the center of your desk to minimize neck strain.

## Taking care of your vision

Long viewing hours, wearing incorrect glasses or contact lenses, glare, excessive room lighting, poorly focused screens, very small typefaces and low-contrast displays could stress your eyes. The following sections provide suggestions on how to reduce eyestrain.

### Eyes

- Rest your eyes frequently.
- Give your eyes regular breaks by looking away from the monitor and focusing on a distant point.
- Blink frequently to keep your eyes from drying out.

### Display

- Keep your display clean.
- Keep your head at a higher level than the top edge of the display so your eyes point downward when looking at the middle of the display.
- Adjust the display brightness and/or contrast to a comfortable level for enhanced text readability and graphics clarity.
- Eliminate glare and reflections by:
  - Placing your display in such a way that the side faces the window or any light source.
  - Minimizing room light by using drapes, shades or blinds.
  - Using a task light.
  - Changing the display's viewing angle.
  - Using a glare-reduction filter.
  - Using a display visor, such as a piece of cardboard extended from the

display's top front edge.

- Avoid adjusting your display to an awkward viewing angle.
- Avoid looking at bright light sources, such as open windows, for extended periods of time.

## Developing good work habits

Develop the following work habits to make your computer use more relaxing and productive:

- Take short breaks regularly and often.
- Perform some stretching exercises.
- Breathe fresh air as often as possible.
- Exercise regularly and maintain a healthy body.



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**Warning! We do not recommend using the computer on a couch or bed. If this is unavoidable, work for only short periods, take breaks regularly, and do some stretching exercises.**



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**Note:** For more information, please refer to **Regulations and safety notices on page 86.**

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# Your Acer Touchbook tour

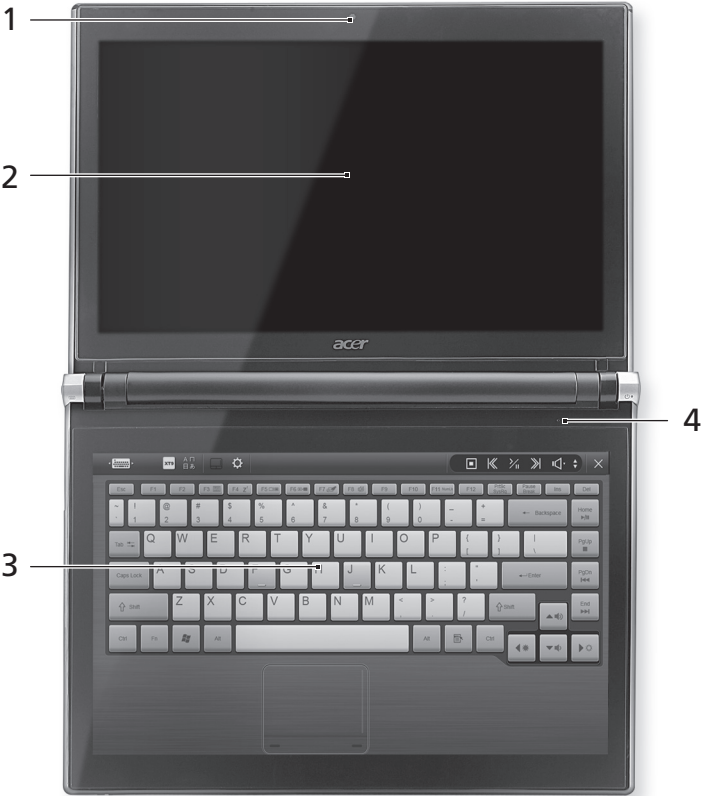
After setting up your computer as illustrated in the setup poster, let us show you around your new Acer computer.

Your new computer is equipped with two multi-touch screens that are used to control the computer and enter data. The first thing you will notice is that there is no traditional keyboard or touchpad. These are replaced with a virtual keyboard and touchpad, so performing tasks will be different from the way you use a traditional notebook. This User Guide will help you to familiarize yourself with these unique functions.

After you have turned on your computer, you will see a standard Windows desktop on the upper screen and a virtual keyboard on the lower screen.



Top view






No.	Icon	Item	Description
1		Acer Crystal Eye webcam	Web camera for video communication.
2		Upper display screen	Also called Liquid-Crystal Display (LCD), displays computer output.
3		Lower display screen	Also called Liquid-Crystal Display (LCD), displays computer output. Shown with Virtual Keyboard open. Please refer to <b>Virtual Keyboard on page 45</b> .
4		Microphone	Internal microphone for sound recording.

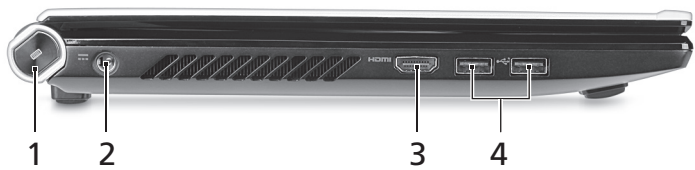






## Closed front view



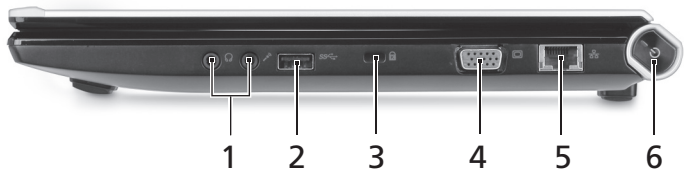
No.	Icon	Item	Description
1		Power indicator	Indicates the computer's power status.
		Battery indicator	Indicates the computer's battery status. <b>1. Charging:</b> The light shows amber when the battery is charging. <b>2. Fully charged:</b> The light shows blue when in AC mode.
		HDD indicator	Indicates when the hard disk drive is active.




Left view


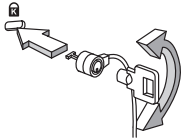





No.	Icon	Item	Description
1		Keyboard button	Press to call up Virtual Keyboard or perform other functions (please refer to <b>The keyboard button on page 47</b> ).
2		DC-in jack	Connects to an AC adapter.
3		HDMI port	Supports high-definition digital video connections.
4		USB 2.0 ports	Connect to USB 2.0 devices (e.g., USB mouse, USB camera).

Right view



No.	Icon	Item	Description
1		Microphone jack	Accepts inputs from external microphones.
		Headphones/ speaker/line-out jack	Connects to audio line-out devices (e.g., speakers, headphones).
2		USB 3.0 port	Connect to USB devices. Supports the USB 3.0 (SuperSpeed USB) specification.

No.	Icon	Item	Description
3		Kensington lock slot 	Connects to a Kensington-compatible computer security lock. <b>Note:</b> Wrap the computer security lock cable around an immovable object and insert the lock into the notch; turn the key to secure the lock.
4		External display (VGA) port	Connects to a display device (e.g., external monitor, LCD projector).
5		Ethernet (RJ-45) port	Connects to an Ethernet 10/100/1000-based network.
6		Power button	Turns the computer on and off.



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**WARNING:** Do not remove the base cover. Doing so may lead to injury or damage to your computer, and void your warranty.



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**Note:** To upgrade your computer, please contact an authorized Acer service center.

## Environment

- Temperature:
  - Operating: 5 °C to 35 °C
  - Non-operating: -20 °C to 65 °C
- Humidity (non-condensing):
  - Operating: 20% to 80%
  - Non-operating: 20% to 80%

# Enabling wireless devices

Device Control allows you to enable and disable the various wireless connectivity devices on your computer.



Open Device Control from Acer Ring or press <Fn> + <F3> (the <F3> button) to open Device Control.

A red button indicates the device is off.

- Tap **ON** to turn the device on.

A blue button indicates the device is on.

- Tap **OFF** to turn the device off.







Tap the device name to open the Windows Control Panel to adjust the advanced settings for each device.

# Acer Ring

Acer Ring incorporates a number of useful functions and tools in one easy-to-use interface. Tap the lower display screen with all five fingers at once to display Acer Ring.

You need to close Virtual Keyboard if it's open before trying to open Acer Ring.



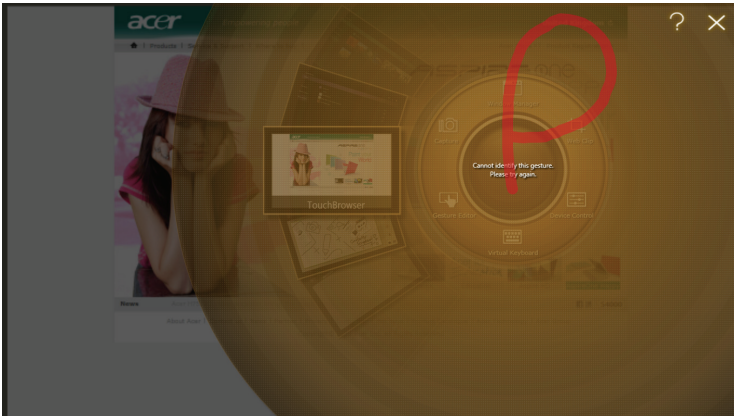
Icon	Item	Description
	Capture	Capture a part of the screen to Scrapbook, to the clipboard or as an image.
	Web Clip	Select a part of a web page to paste in Scrapbook or My Journal.
	Device Control	Adjust settings for your computer (please refer to <b>Device Control on page 30</b> ).
	Gesture Editor	Open the Gesture editor (please refer to <b>Gesture Editor on page 9</b> ).
	Keyboard	Open Virtual Keyboard (please refer to <b>Virtual Keyboard on page 45</b> ).
	Window Manager	Open Window Manager (please refer to <b>Window Manager on page 56</b> ).

On one side of Acer Ring you can see a selection of AppCards. You can scroll through the applications and tap on a card to open the application.

The AppCards are as follows:

- TouchVideo
- TouchPhoto
- TouchMusic
- **TouchBrowser** (this is the AppCard that is shown when you open Acer Ring.)
- Scrapbook
- My Journal
- SocialJogger

Starting from the area marked **Draw a gesture here** draw a gesture you have defined to perform the associated function. Please refer to **Gesture Editor** on **page 9** for information on defining your own gestures.



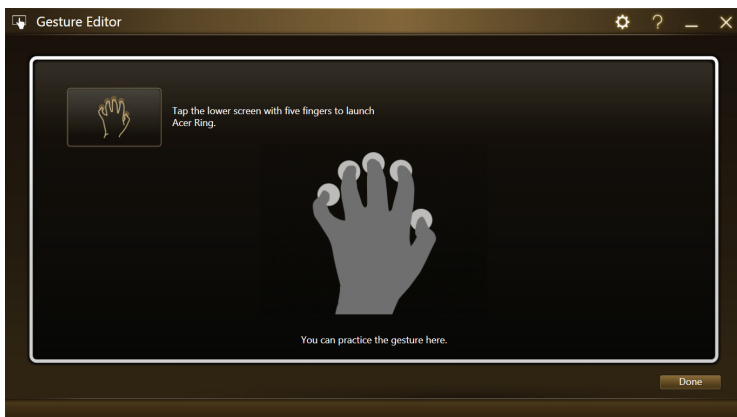
**Note:** As long as the gesture starts within the central ring, you can extend the gesture beyond the boundaries of the central ring. Larger gestures increase recognition accuracy.

# Gesture Editor

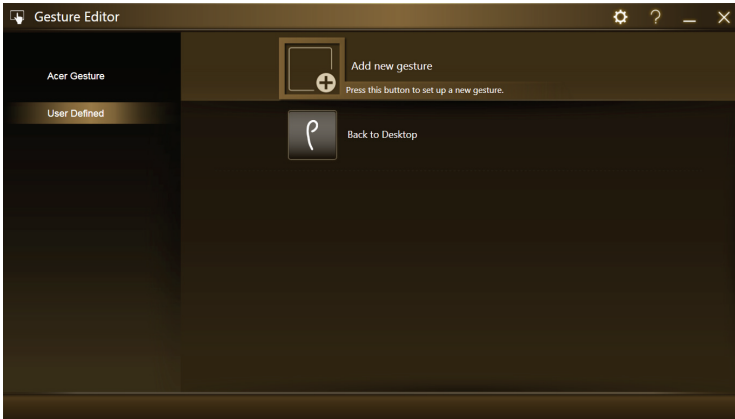
You can set personalized gestures to perform functions or launch programs. Tap **Gesture Editor** on Acer Ring to see the pre-defined gestures.



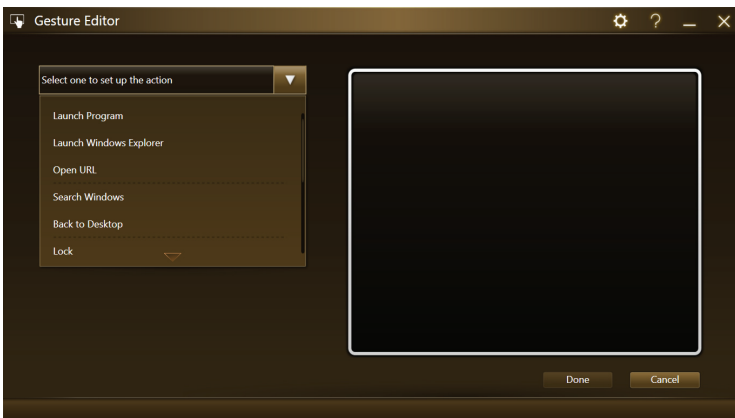
Tap either of the pre-defined gestures to practice the gesture.



Tap **User Defined** to define your own gestures. Tap **Add New Gesture** to add new gestures.

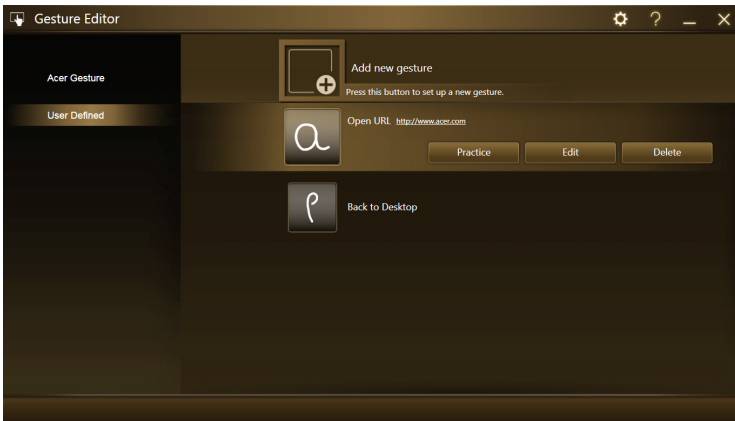


Select the action you'd like to perform from the drop-down menu on the left-hand side of the screen. Draw the gesture in the area on the right-hand side of the screen. When prompted, enter the gesture again.

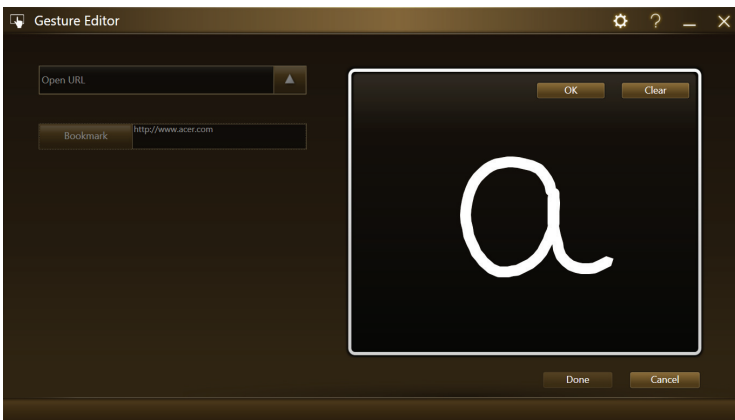




Once you have defined the gesture, you can practice, edit or delete the gesture. Tap the gesture to select it, then tap the appropriate button.



Tap **Edit** to edit a gesture. You can change the action from the drop-down menu in the upper left-hand corner of the edit window. You can edit URLs and applications directly in the text area.



You can also adjust the stroke style from the Settings page. Tap the settings icon to open the settings page.

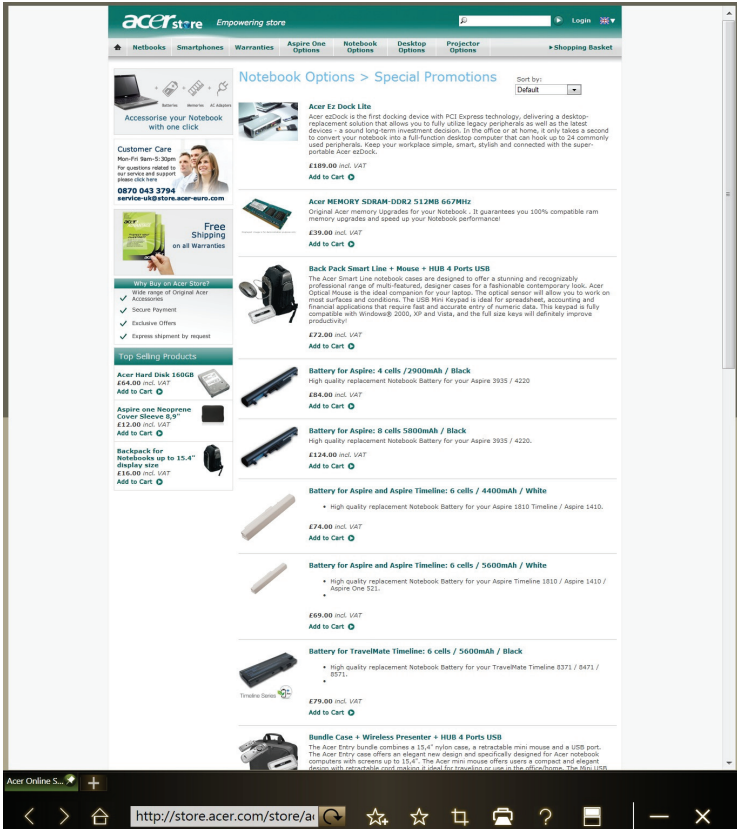


# TouchBrowser

TouchBrowser is specifically designed to offer you a more comfortable web surfing experience when using touch input. Open Acer Ring and tap the TouchBrowser AppCard to launch the browser.



The web content will be displayed across both screens. The toolbar at the bottom of the screens gives you easy control over the open pages.

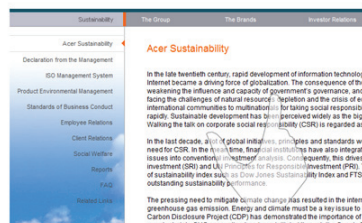


To enter a website address, tap the URL bar. A keyboard icon will display, allowing you to open a virtual keyboard and enter text, or use handwriting to enter the URL.



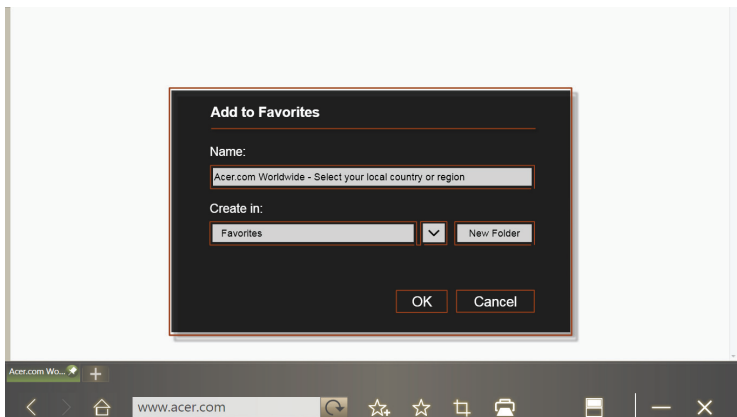
No.	Item	Description
1	Tabs	Shows the pages currently open.
2	Open new tab	Tap to open a new tab.
3	Back	Go back one page.
4	Forward	Go forward to the next page in the browsing history.
5	Home	Open the defined home page.
6	URL bar	Shows the address of the current page.
7	Add to favorites	Add the current page to your favorites.
8	Favorites	Open the list of your favorites / history.
9	Web Clip	Crop a part of the web page for use in <b>My Journal</b> or <b>Scrapbook</b> .
10	Print	Print the page.
11	Help	View the Help file.
12	Switch mode	Switch to browsing on a single screen. If you're in single-screen browsing, tap to return to browsing on both screens.
13	Minimize	Minimizes the browser.
14	Close	Closes the browser.

You can use a pinch action to zoom in to content on the page.



## Adding a page to your Favorites

To add a page to your Favorites, tap the **Add to Favorites** icon, give the page a name (the page title will be used by default) and select a folder to save the URL to.



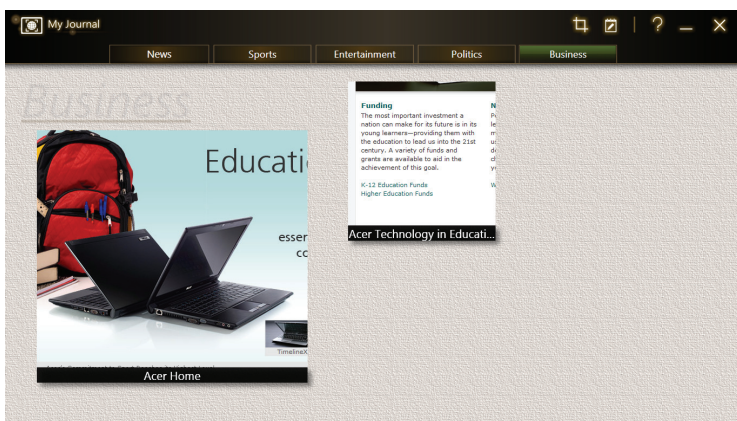
# My Journal

**My Journal** is a handy place for you to keep clippings of websites and other information you may want to refer to later. You can organize the information you wish to view from a number of sources on a single, easy-to-view page.

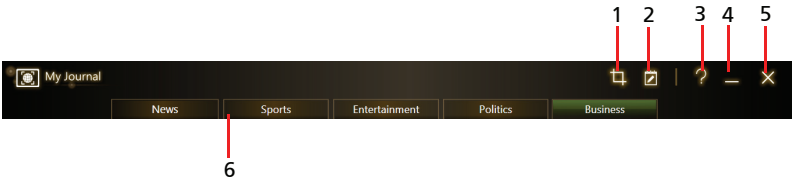
Open Acer Ring and scroll through the AppCards to My Journal. Tap the AppCard to open the application.



Website content is automatically updated each time you open the journal page.





Use the tabs along the top of the screen to switch between your journal pages, or tap the icons on the toolbar to perform various functions.



No.	Item	Description
1	Web clip	Crop a part of the web page for use in My Journal.
2	Edit	Edit the content on the journal pages.
3	Help	View the help file.
4	Minimize	Minimizes My Journal.
5	Close	Closes My Journal.
6	Tabs	Shows the pages in your journal.




.....

**Note:** When you have finished editing your clips, tap  **Done** to return to viewing mode. If you want to edit a web clip at a later time, tap the edit icon  to enter edit mode.

## Editing pages

In edit mode, you can resize web clips by dragging the corners of the web clip to the size you want.

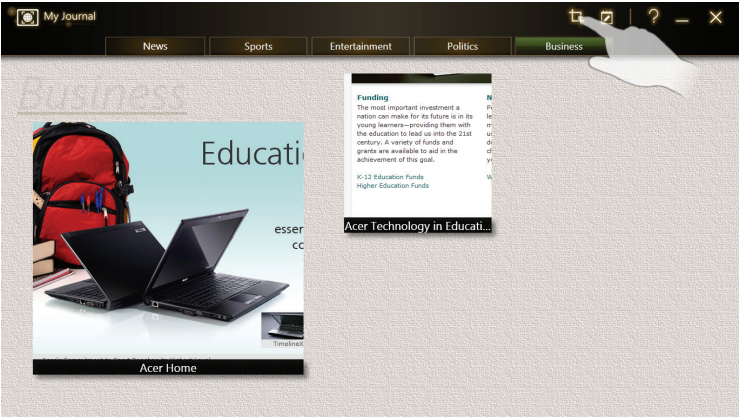
You can also move web clips to other pages by dragging the web clip to the tab for the page you want to move the clip to.

Tap the name of a tab to open Virtual Keyboard and rename the tab. When you have finished, tap  **Done**.

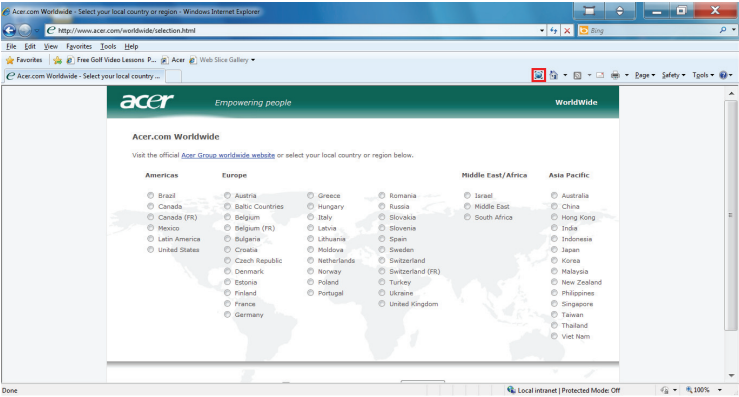


# Web Clip

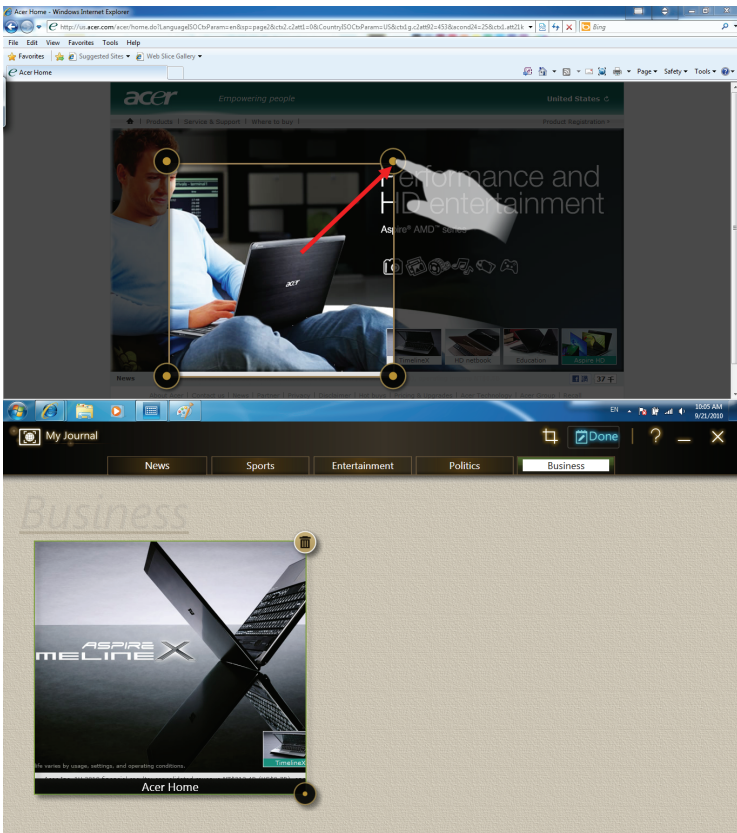
The web clip tool allows you to clip parts of web pages to save them to My Journal. Once you have a page open in your browser, tap the **Web clip** icon.



If you're using Internet Explorer, you will need to tap the Web Clip icon in the Internet Explorer toolbar.

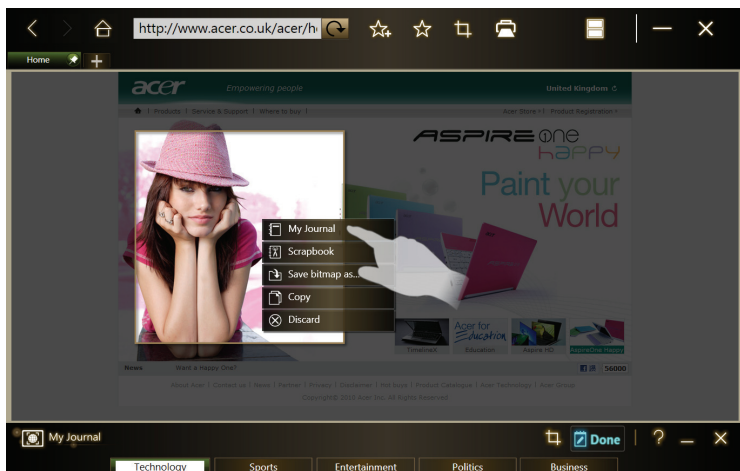


Tap the browser screen to select the area you want to crop; tap and drag on any of the circles on the corner of the crop window to expand it to include all the information you want to capture.



When you have finished selecting the area you want to crop, tap the area to open a menu that will allow you to paste the content into **My Journal**,

**Scrapbook** or **Copy** it to the clipboard. You can also **Save bitmap as...** or **Discard** the web clip.



Tap a clip to select it, then you can position it on the page and stretch it by dragging the corners to the desired size.

To delete a web clip, tap the clip in **My Journal** and tap the trash can icon.



**Note:** If the web clip comes from a site that requires a login, the clip will be grayed out and a key icon will show to indicate that it requires a login. Tap the clip to open the login page in My Journal.



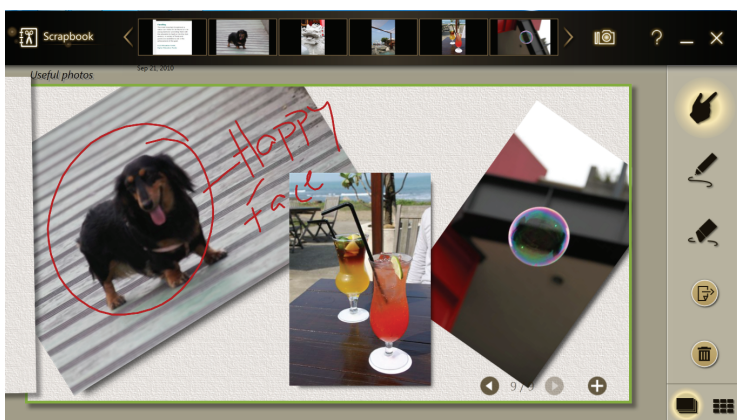
**Note:** If an Internet connection to the website is unavailable, the clip will indicate that the connection is unavailable. Tap the clip to refresh the data.



# Scrapbook






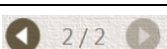


**Scrapbook** is a convenient place for you to store images, captures from websites, and other content. Open Acer Ring and scroll through the AppCards to Scrapbook. Tap the AppCard to open the application.



You can also annotate items or write reminders.




Icon	Function
	Thumbnails of images in the Windows 7 Pictures library.
	Capture tool. Capture a part of the screen to Scrapbook, to the clipboard, or as an image.

Icon	Function
	Tap to edit content on the page; tap again close the selected tool and return to viewing mode.
	Pen tool for drawing or entering handwritten text.
	Eraser tool.
	Export tool. Export the page to the clipboard for insertion into other applications, or to save as an image file.
	Delete the current page or selected image. <b>Note:</b> There is no "Undo" function available.
	Shows the current page of the total pages and allows you to flip backwards or forwards through pages.
	Add a new page.
	View individual pages or thumbnails. Tap a thumbnail to open the individual page.

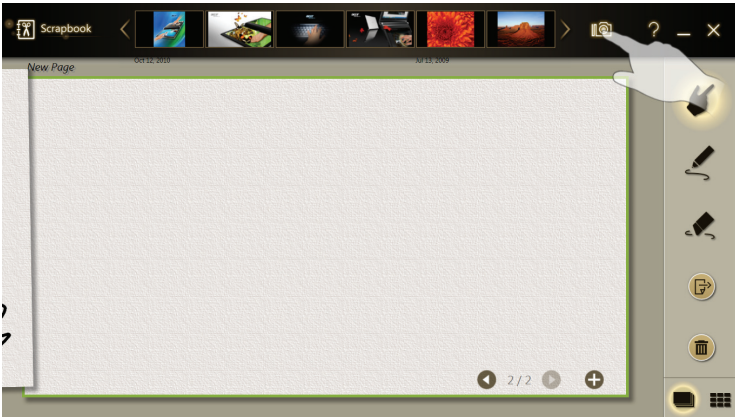


.....

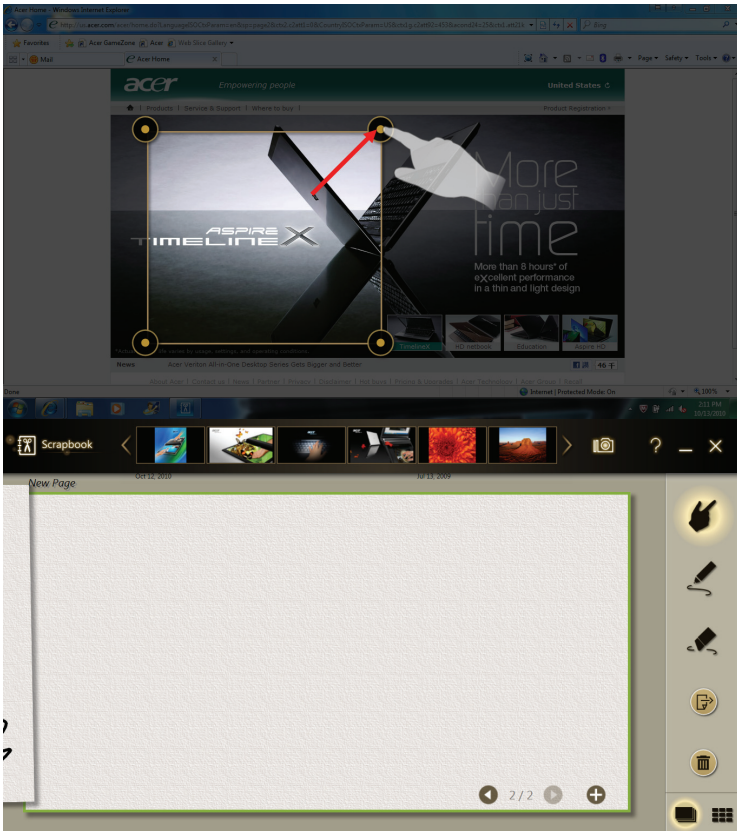
**Note:** You need to tap  to resize, rotate or delete images on Scrapbook pages.

## Capture tool

The capture tool allows you to clip parts of displayed content to save them to Scrapbook. Once you have the content open on the upper screen, tap the **Capture** icon in Scrapbook.



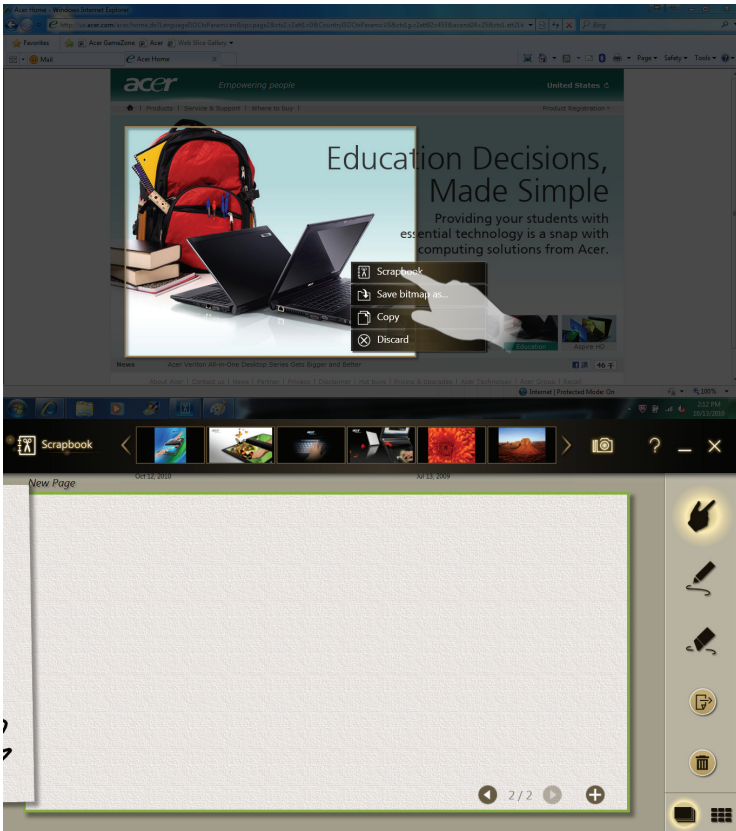
Tap the content you want to copy and select the area you want to crop; tap and drag on any of the circles on the corner of the crop window to expand it to include all the information you want to capture.



When you have finished selecting the area you want to crop, tap the area to open a menu that will allow you to save the clip as an image you can drag and

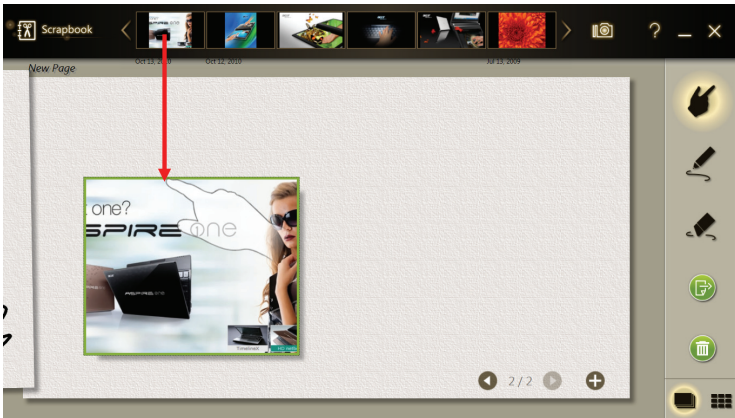


drop onto the **Scrapbook** page, save the capture as a **Bitmap**, or **Copy** it to the clipboard.






The capture will be added to the thumbnails above the scrapbook page. Drag and drop the capture onto the page.



Tap a clip to select it, then you can position it on the page.

## Managing images in Scrapbook



**Note:** You need to tap  to resize, rotate or delete images on Scrapbook pages.

You can drag and drop images from the thumbnail line at the top of the screen to the scrapbook page: Enlarge or shrink the picture using pinch actions, or rotate the picture on the page.

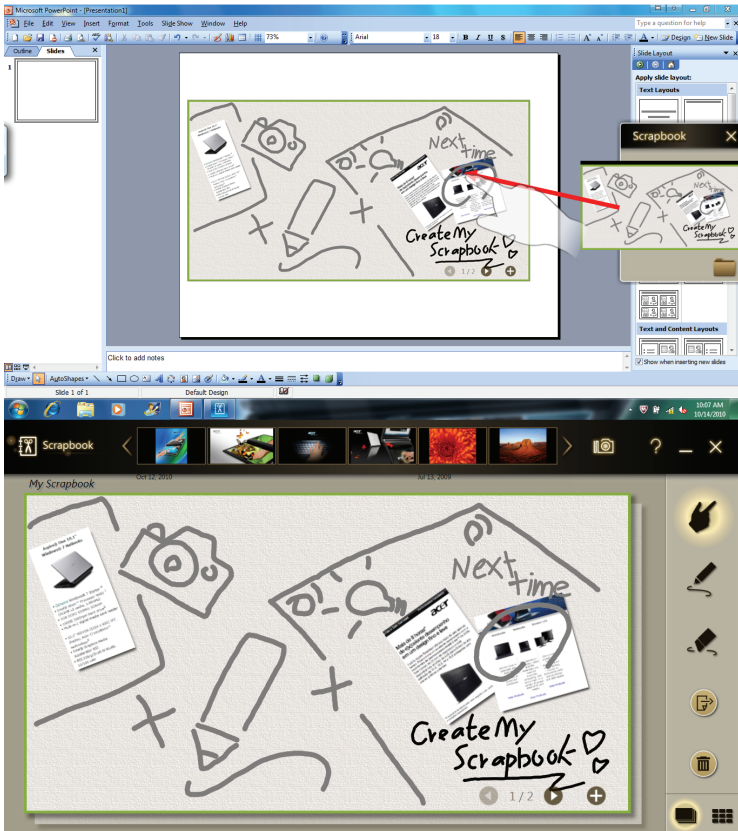


## Exporting Scrapbook pages

You can export Scrapbook pages to other applications (such as PowerPoint), or save it as an image file on your system. Tap the export icon.



This will open a tab on the upper screen showing the exported page. Drag and drop the page into the other application, or to your desktop / file browser to save it as a file.



# Device Control

Device Control is a convenient way for you to control the brightness of each screen, turn the backlight on or off for each screen, and adjust the volume to suit your needs. It also indicates the location of each port on your computer and allows you to turn your connectivity devices on or off, select a power scheme, lock your computer, turn it off, or place it in Sleep mode.



If you have any devices plugged into a USB port or the HDMI port, Device Control will show what type of device is plugged into each port. If you have inserted a storage device into a USB port, you may tap the USB icon to open a context menu. Tap **Open** to view the files in Windows Explorer.



To safely remove the device, select **Eject** from the menu.

There are also context menus available for the HDMI and VGA connectors.

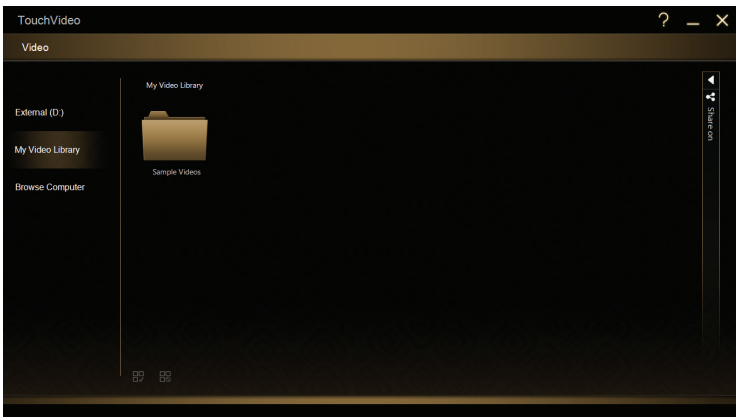
# Multimedia

## TouchVideo

TouchVideo gives you an easy-to-use interface to view video content from your computer. Tap the **TouchVideo** AppCard to launch TouchVideo.



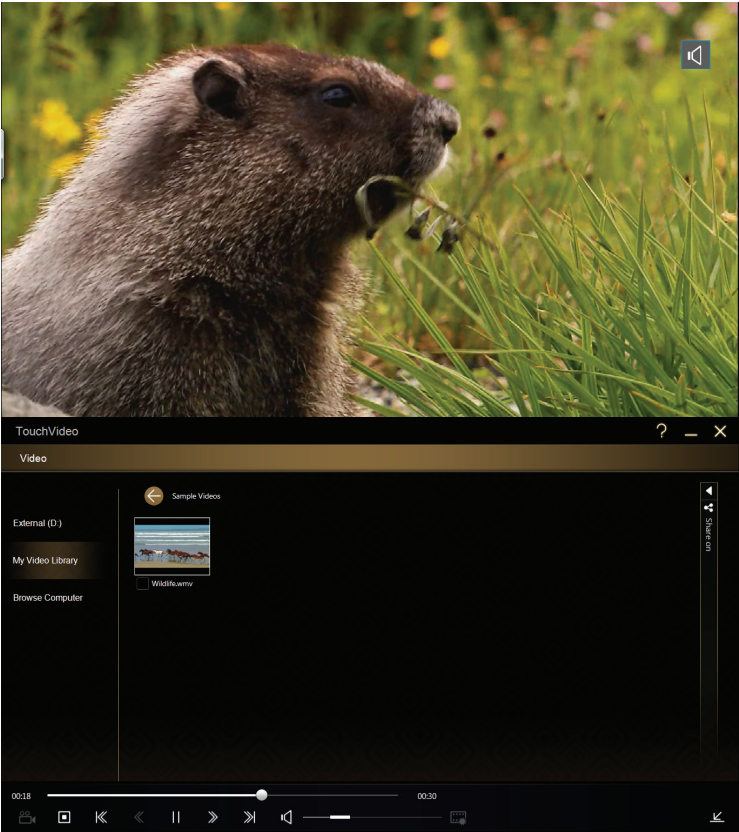
The TouchVideo interface will open on the lower screen and show thumbnails of the video files found in your video library.



Tap **Browse Computer** to browse your computer for other video files.



Video files will be shown as thumbnails. Tap any thumbnail to start playing the video on the upper screen.



At the bottom of the lower screen a toolbar with video controls will open.

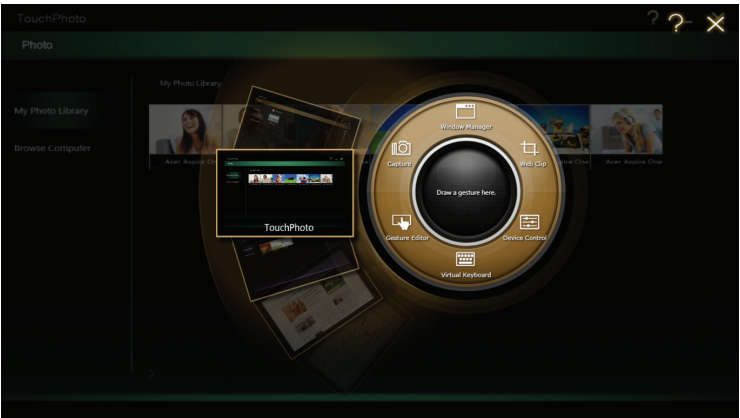


No.	Item	Description
1	Progress bar	Indicates the playback progress.

No.	Item	Description
2	Stop	Stops playback.
3	Previous	Jumps to the previous video clip in the folder.
4	Rewind	Rewinds video playback.
5	Pause	Pauses video playback.
6	Fast forward	Plays the video at a faster speed.
7	Next	Jumps to the next video clip in the folder.
8	Volume	Adjust playback volume.
9	Minimize	Minimizes toolbar.

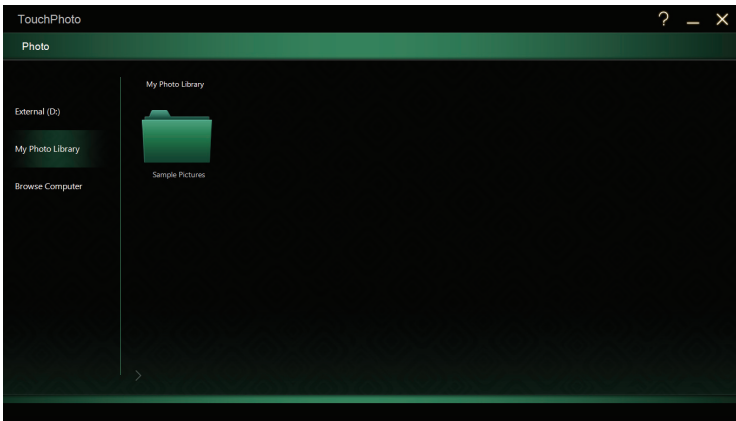
## TouchPhoto

TouchPhoto gives you an easy-to-use interface to view image files from your computer. Tap the **TouchPhoto** AppCard to launch TouchPhoto.

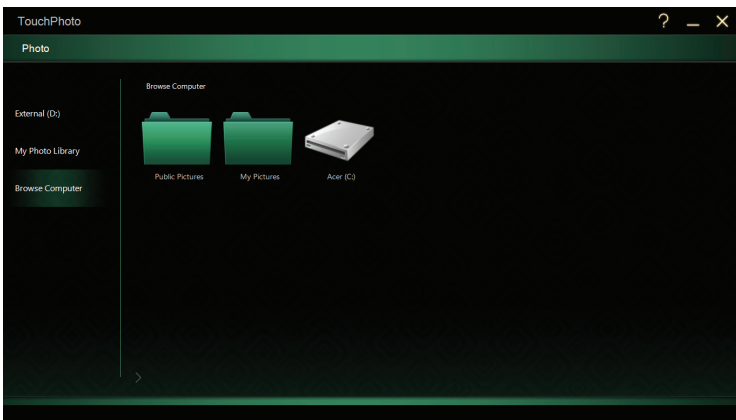




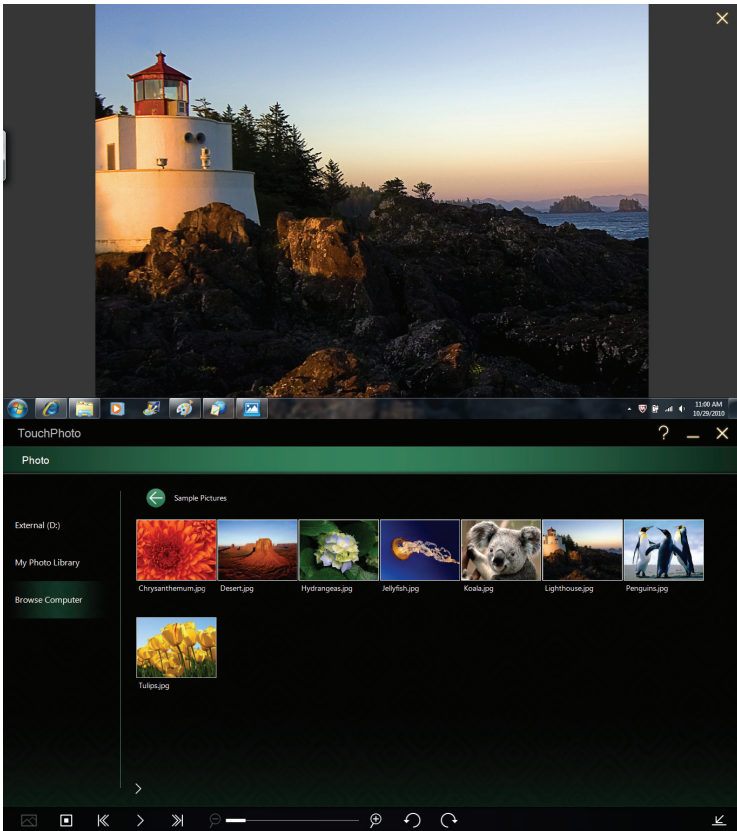
The interface will open on the lower screen and show thumbnails of the image files found in your image library.



Tap **Browse Computer** to browse your computer for other image files.



Photos will be shown as thumbnails. Tap any thumbnail to display the photo on the upper screen.



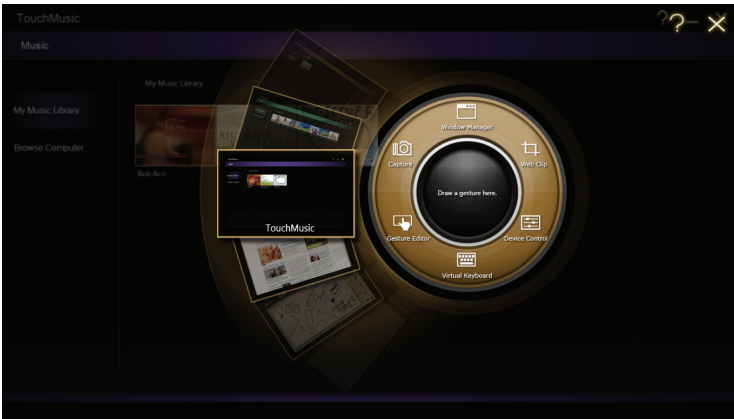
At the bottom of the lower screen a toolbar with slideshow and playback controls will open.



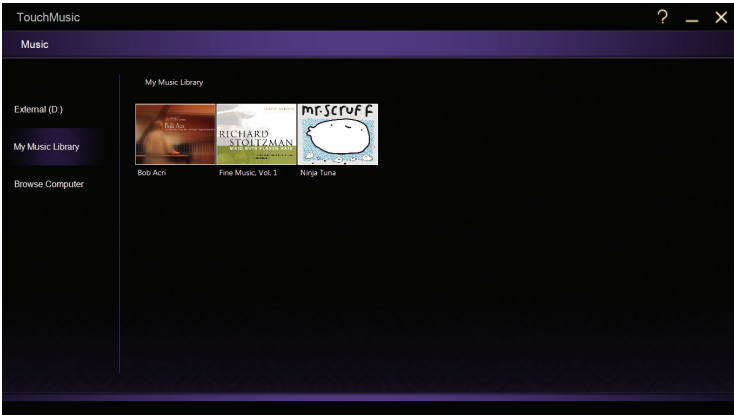
No.	Item	Description
1	Slideshow	Starts playing a slideshow of all the images in the folder.
2	Stop	Stops the slideshow playback.
3	Previous	Jumps to the previous photo in the slideshow.
4	Pause	Pauses the slideshow.
5	Next	Jumps to the next photo in the slideshow.
6	Zoom	Adjusts the zoom of the displayed photo (disabled during slideshows).
7	Rotate left	Rotates the selected photo 90° to the left.
8	Rotate right	Rotates the selected photo 90° to the right.
9	Minimize	Minimizes the toolbar.

# TouchMusic

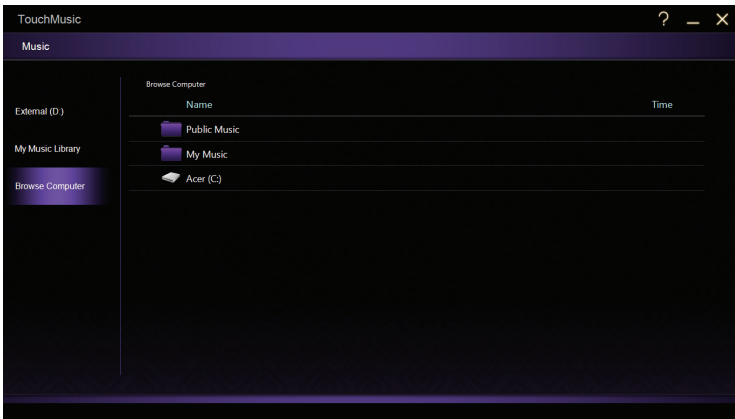
TouchMusic gives you an easy-to-use interface to listen to audio content saved on your computer. Tap the **TouchMusic** AppCard to launch TouchMusic.



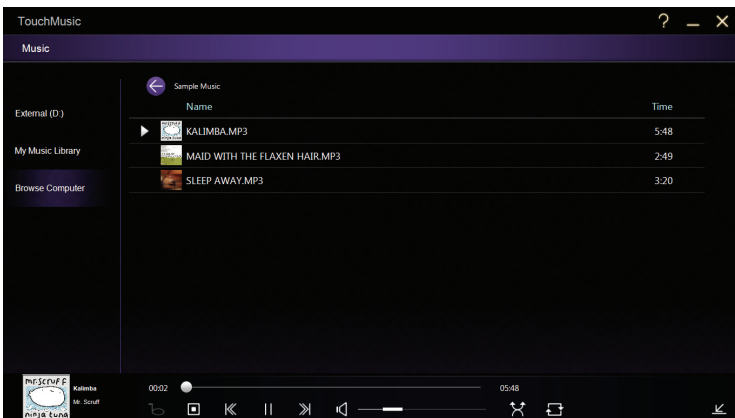
The TouchMusic interface will open on the lower screen and show thumbnails of the audio files found in your Music library. When available, album artwork will be displayed for the thumbnails.



Tap **Browse Computer** to browse your computer for other audio files.



Audio files will be shown as thumbnails. Tap any thumbnail to start playing the audio file.



At the bottom of the lower screen a toolbar with playback controls will open.



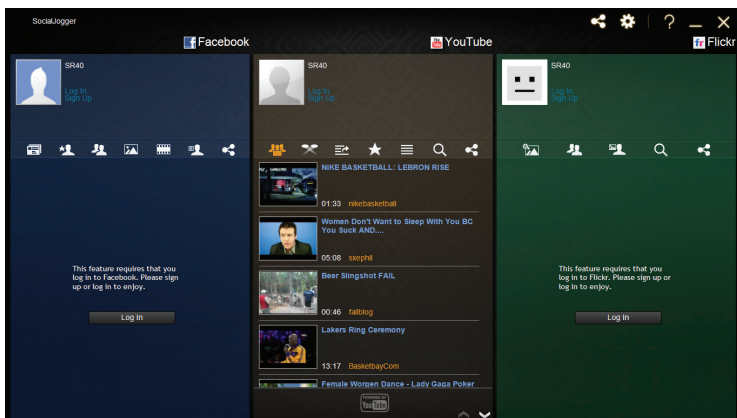
No.	Item	Description
1	Progress bar	Indicates the playback progress.
2	Thumbnail	Shows the thumbnail of the album cover, name of album and song title currently being played.
3	Stop	Stops playback.
4	Previous	Jumps to the previous audio file in the folder.
5	Pause	Pauses video playback.
6	Next	Jumps to the next video clip in the folder.
7	Mute	Mutes the sound.
8	Volume slider	Adjust playback volume.
9	Shuffle	Plays the audio files back in a random order.
10	Repeat	Repeats playback of the selected file(s).
11	Minimize	Minimizes toolbar.

# SocialJogger

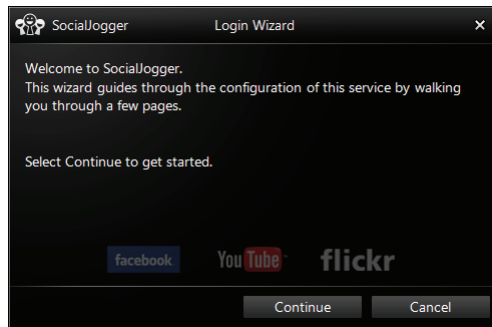
Open Acer Ring and tap the SocialJogger AppCard.



SocialJogger gives you one-touch access to popular social networking sites: Facebook, YouTube and Flickr.

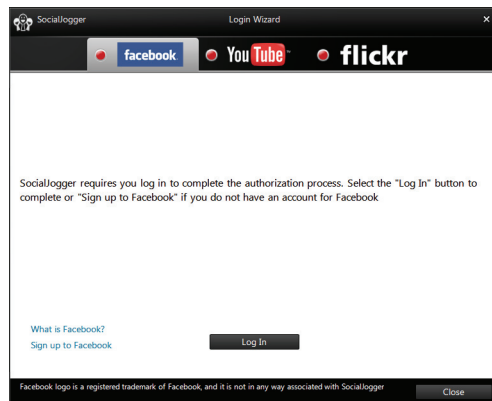


Tap **Log In** to open the login wizard. You can log into all three supported services from a single login wizard. If you don't already have an account with the supported services, you can create an account from the wizard.



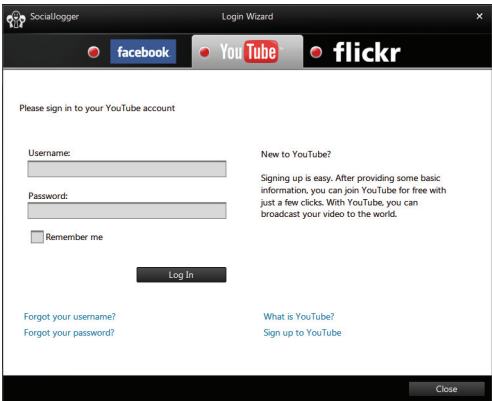
Tap **Continue** to log into your account(s):

Facebook

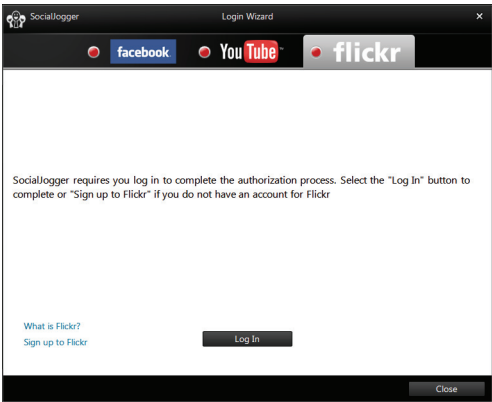





YouTube



Flickr



Sharing content

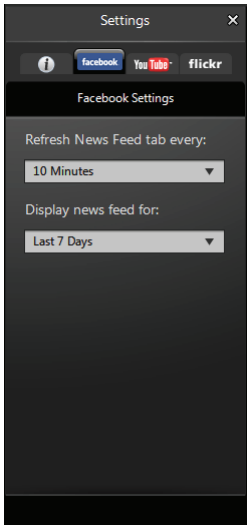
You can upload content to each service by tapping the **Share on** icon  in the upper right-hand corner of the page. This will open a file browser above the

three service pages. Drag and drop the content you want to share to the desired service.



# Settings

You can adjust the settings for each service by tapping the **Settings** icon. This opens the settings window with a tab for each service.



# Virtual Keyboard

Virtual Keyboard functions as a traditional keyboard and offers additional features.

Place your palms lightly on the lower screen to display Virtual Keyboard. You may also press the **keyboard button** on the left-hand screen hinge.




To close Virtual Keyboard, tap the **X** (icon 7 below) in the upper right-hand corner of the window.



**WARNING:** Do not press down hard on the screens. Doing so may damage them.



No.	Icon	Function
1		Switch to between full keyboard mode and handwritten input.
2		Switch XT9 text input on or off. Please refer to <b>XT9 predictive text on page 46</b> .
3		Change input method (depends on the languages set up in Windows).

No.	Icon	Function
4		Show or hide touchpad. When the touchpad is hidden, a tab appears on the left of Virtual Keyboard which allows you to move the keyboard up or down on the screen.
5		Open the keyboard settings window. Please refer to <b>Keyboard settings on page 54</b> .
6	Keyboard toolbars	Two toolbars with handy control functions. Please refer to <b>Keyboard toolbars on page 47</b> .
7		Close Virtual Keyboard.
8	Virtual touchpad	A virtual pointing device.


## XT9 predictive text



**Note:** XT9 predictive text is supported on select languages only.

You can use XT9 predictive text input from the onscreen keyboard. As you tap letters, XT9 predictive text will display a selection of words alongside the text box that match the letter sequence of the letters tapped or nearby letters. The word list changes after every key press.



**Note:** , XT9 and the XT9 logo are registered trademarks of Nuance Communications, Inc. or its subsidiaries in the United States of America and/or other countries.

## Turning predictive text on or off

To turn the predictive text function off, tap **XT9**.

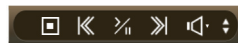


## Keyboard toolbars

In the upper left-hand corner of the keyboard there are two toolbars that have handy control functions. Use the arrows next to the toolbar to switch between the toolbars.

### Media toolbar

This toolbar contains commonly used media controls.



### Editing toolbar

This toolbar includes many commonly used functions for editing content, including copy, cut, paste, and print.



## The keyboard button

The keyboard button, located on the left-hand hinge, can be used to perform a variety of functions.

## When operating under Windows

Its primary function is to open Virtual Keyboard; do this by pressing and releasing the keyboard button after Windows has fully booted.

If you find that the system fails to respond after connecting or disconnecting an external display, press and hold the button for four seconds. When you release the button, the display settings and touch functions will be reset.


## Before Windows boots

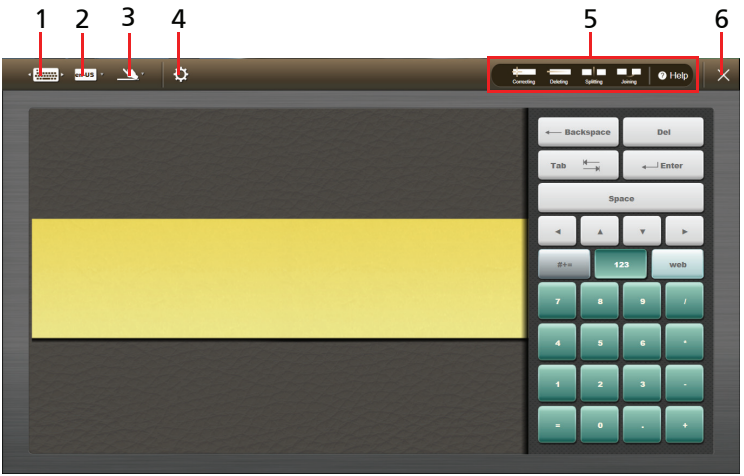
If your computer experiences an unexpected shutdown, Windows will attempt to boot in recovery mode. The keyboard button can be used to control the boot mode. Press and release the button to move the cursor down to select a boot mode. Press and hold the button for four seconds to perform the **Enter** function.







## Other ways of entering information

There are also other ways of entering information, depending on your needs. Your computer has a virtual numeric keypad for entering data or you can use handwritten text input.

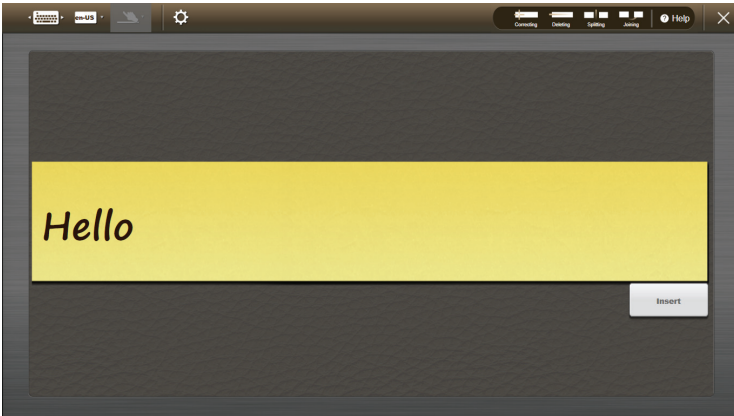
# Handwritten input

To enter the numeric keypad mode or use handwritten input, tap .



No.	Icon	Function
1		Switch to full keyboard mode.
2		Open a menu showing input options.
3		Switch between freehand input and individual characters.
4		Open the keyboard settings window. Please refer to <b>Keyboard settings on page 54</b> .
5		Tap a function to view a short tutorial animation. Tap <b>Help</b> to view the Virtual Keyboard help file.
6		Close Virtual Keyboard.

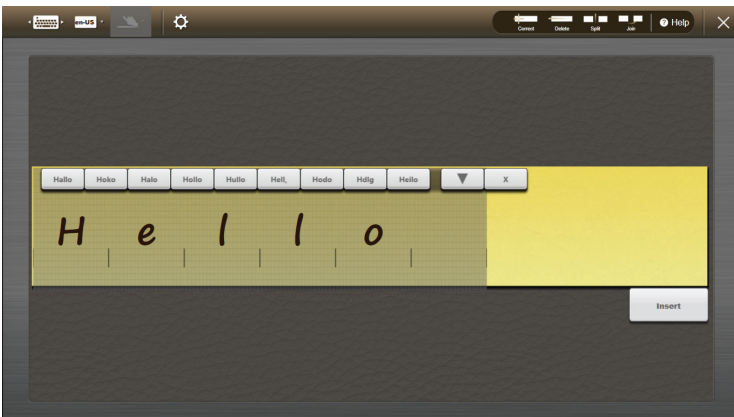
Select the area (on the upper screen) in which you wish to enter text. Enter your text in the yellow area and tap **Insert** to insert the text on the upper screen.



## Handwriting actions

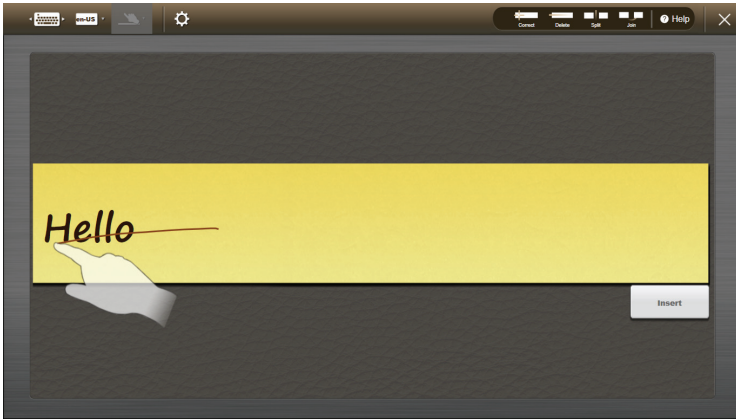
From the toolbar at the top of the page, you can view animations illustrating the actions mentioned.

Tap the displayed text to space the letters more widely so you can change individual letters.

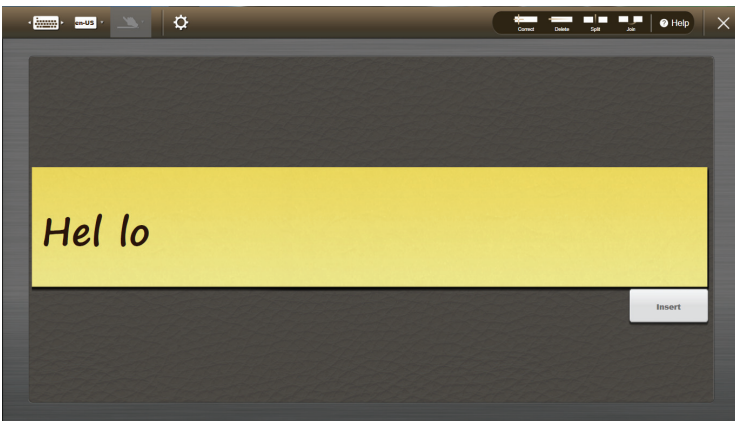




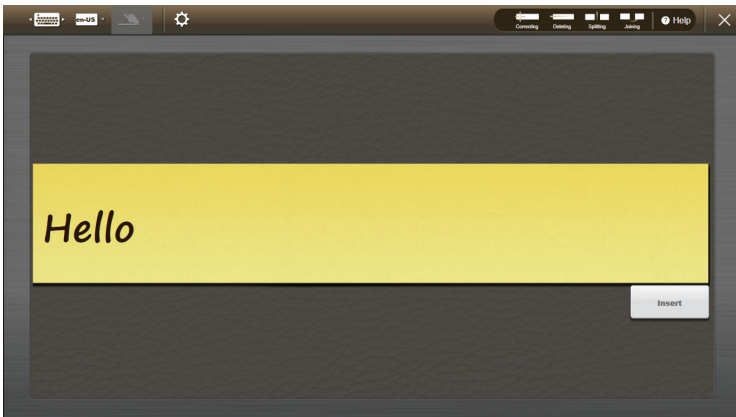
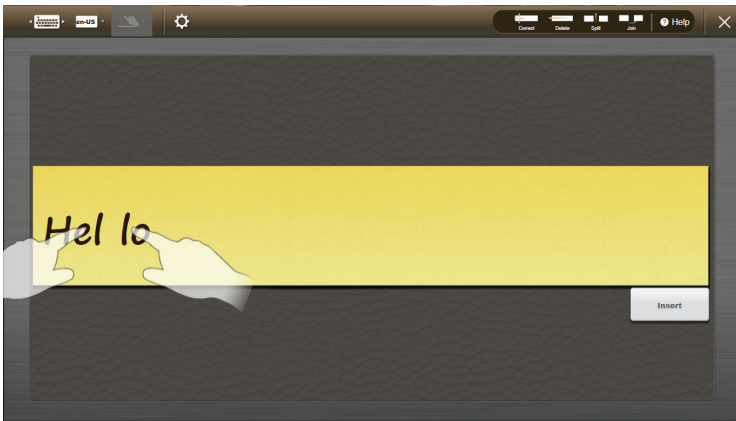
If the computer fails to recognize your handwriting correctly, you can draw a line through the text you wish to delete.



You can split the letters to add in another letter by drawing a vertical line between two letters.



You can also join letters by tapping the two groups of letters you'd like to join.

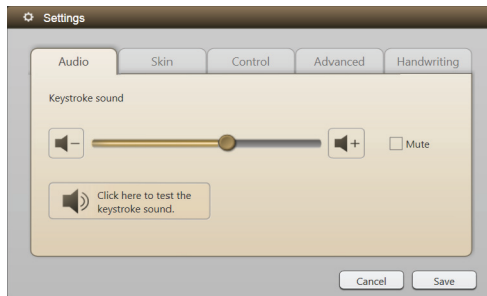


## Keyboard settings

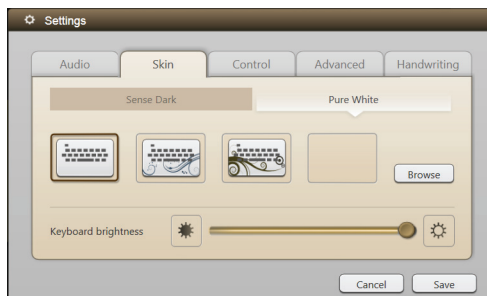
Tap the keyboard settings icon  to open the settings window.



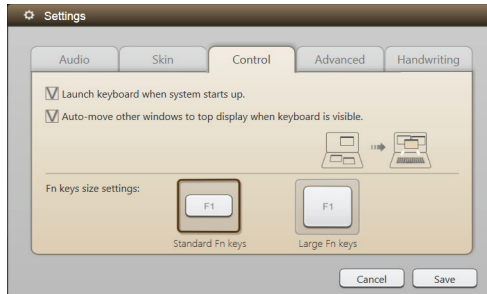
Here you can adjust the sounds the keyboard makes when you tap keys.



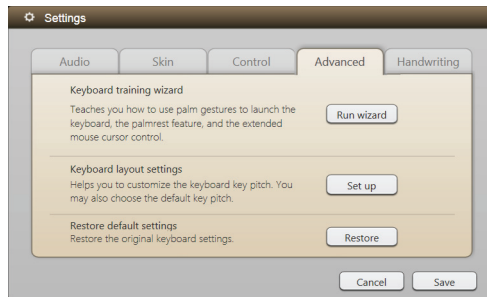
You can also change the keyboard skin. Tap a skin to select it, then tap **Save** to apply the skin and return to the keyboard. You can also adjust keyboard brightness using the slider.



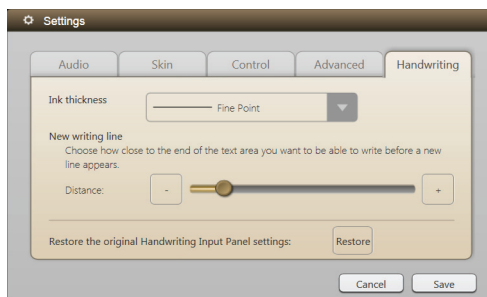
Or adjust the startup status and function keys to suit your needs. You can enable or disable launching the keyboard on startup and set the size you prefer for the function keys.



The Advanced tab allows you to run the keyboard training wizard, calibrate the keyboard, or restore default settings.



In the handwriting tab you can set the ink thickness, adjust spacing, and restore the defaults.





# Window Manager

Your Windows desktop is extended to the lower screen, allowing you to work on both screens using the touch functions.



Use Window Manager to control the windows on each screen. To launch Window Manager, open Acer Ring and select **Window Manager** (please refer to **Acer Ring on page 7** for more information).

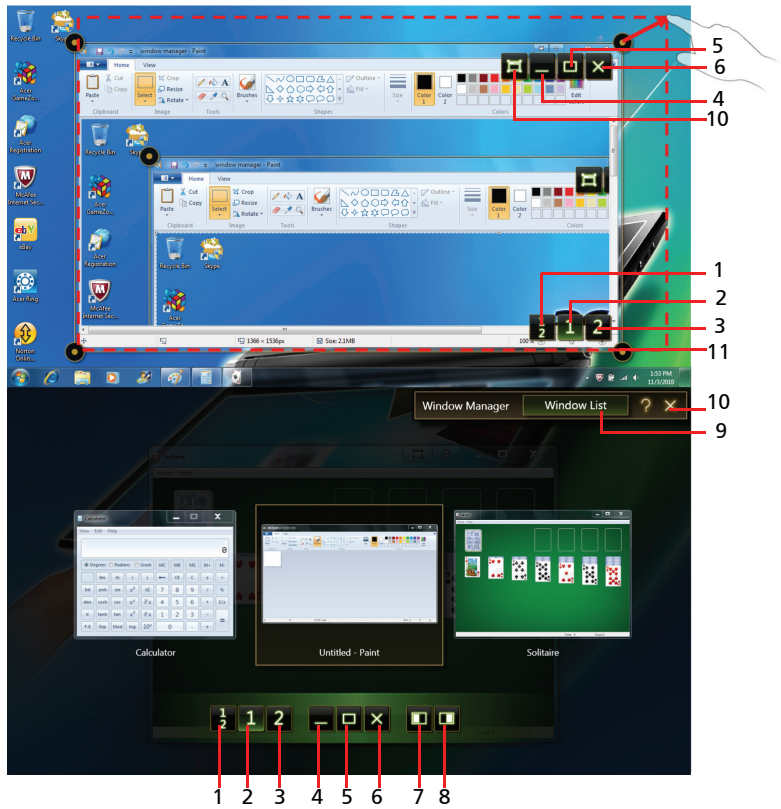
Window Manager gives you a touch-friendly interface for controlling the various windows on your computer. Two additional buttons are added to the title bar of any window. They provide an easy way to move windows from one screen to the other by tapping the  icon on each window.

Tap  to open Window Manager. This gives you additional ways of controlling and managing your open windows.



Window Manager allows you to easily resize windows by tapping and dragging on the circles on each corner of the window. It also allows you to easily position a window by tapping and dragging the window. If you want to move the

window from one screen to the other, you can tap, drag and then flick the window.



No.	Item	Description
1		Stretch the active window over both screens.
2		Move the active window to the upper screen.
3		Move the active window to the lower screen.
4	Minimize	Minimize the active window
5	Maximize	Maximize the active window.
6	Close active window	Closes the active window.
<b>Note:</b> This icon will close the active window. Use the icons numbered 10 to close Window Manager.		

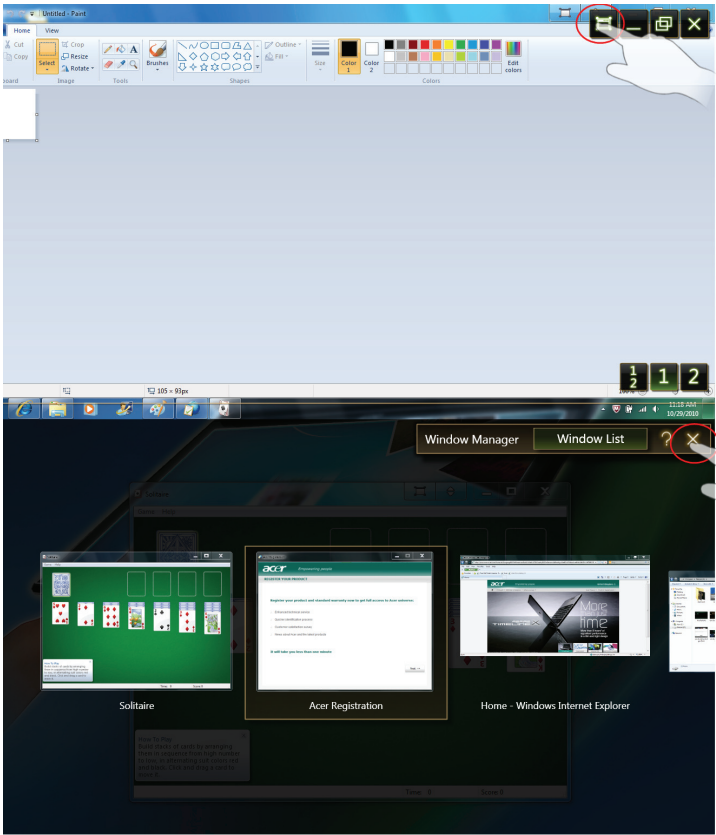


No.	Item	Description
7		Moves the active window to the left-hand side of the screen.
8		Moves the active window to the right-hand side of the screen.
9	Window List	<p>Opens the Window List. Tap this icon to view thumbnails of the open windows.</p> <p>You can flip through the thumbnails; tap a thumbnail to jump to the window.</p>
10	Close Window Manager	<p>Closes Window Manager.</p> <p><b>Note:</b> There are two icons that have the same function. Use either icon to close Window Manager.</p>
11		Tap and drag the corners to expand the active window.

# Closing Window Manager




**Important:** To close Window Manager, tap the icons numbered 10 above.




# Adjusting display settings


It is important to have the correct display settings on your computer, otherwise it may not work properly. If you connect an external display, the external should always be set as the **Primary Display**.

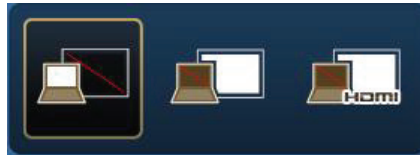


**Note:** The <F5> key will change to  when you press the <Fn> key.



**Important:** The display settings should be adjusted using <Fn> +  or the Intel Graphics and Media Control Panel only.

If you have an external display device attached to the HDMI port or VGA port, you can switch the upper display screen to the external device by pressing <Fn> +  from Virtual Keyboard. If you have more than one device attached, press the hotkey combination until it activates the desired device.



## Using the Intel Graphics and Media Control Panel

To open the Intel Graphics and Media Control Panel, right-click on the  icon in the System Tray and select **Graphics Properties...** to open the Intel Graphics and Media Control Panel.

Select **Multiple Displays** from the menu on the left and select the **Second Display**.



In the **General Settings** window you will need to set the display as follows.



- Display: **Built-in Display 2**
- Resolution: **1366 x 768**
- Color Depth: **32 Bit**
- Refresh Rate: **60 Hz**
- Rotation: **Rotate to 180 Degrees**
- Scaling: **Scale Full Screen**

# Power management

This computer has a built-in power management unit that monitors system activity. System activity refers to any activity involving one or more of the following devices: keyboard, mouse, hard disk, peripherals connected to the computer, and video memory. If no activity is detected for a period of time (called an inactivity timeout), the computer stops some or all of these devices in order to conserve energy.

This computer employs a power management scheme that supports the advanced configuration and power interface (ACPI), which allows for maximum power conservation and maximum performance at the same time. Windows handles all power-saving chores for your computer.

## Acer eRecovery Management

Acer eRecovery Management is a tool to quickly restore the system. You can back up/restore the factory default image, and reinstall applications and drivers.

Acer eRecovery Management consists of the following functions:

- 1 Backup:
  - Create Factory Default Disc
  - Create Drivers and Applications Disc
- 2 Restore:
  - Completely Restore System to Factory Defaults
  - Restore Operating System and Retain User Data
  - Reinstall Drivers or Applications

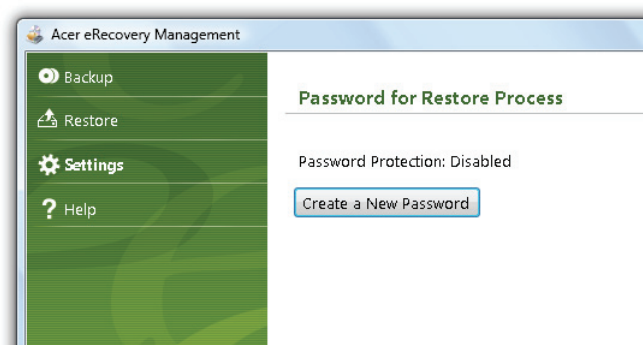
This chapter will guide you through each process.



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**Note:** This feature requires an external optical disc burner before entering Acer eRecovery Management for optical disc-related tasks.

To use the password protection feature of Acer eRecovery Management, you must first set the password. The password is set by launching Acer eRecovery Management and clicking **Settings**.



## Burn backup discs



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**Note:** This feature requires an external optical disc drive.

From the Backup page of Acer eRecovery Management, you can burn the factory default image or back up drivers and applications.

- 1 Click on **Start > All Programs > Acer > Acer eRecovery Management**.
- 2 Acer eRecovery Management opens to the **Backup** page.



- 3 Select the type of backup (factory default or drivers and applications) you would like to burn to disc.
- 4 Follow the instructions on screen to complete the process.



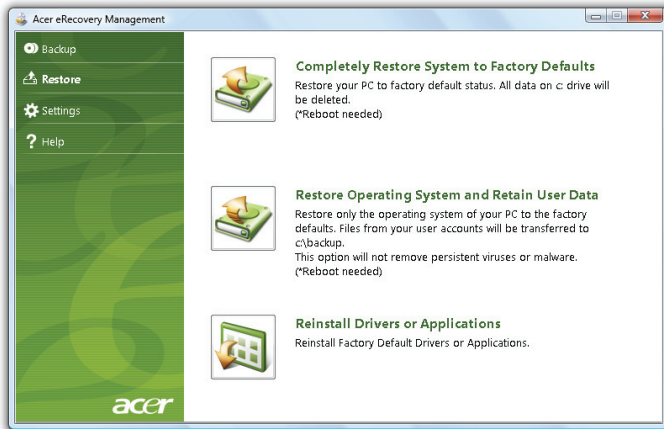
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**Note:** Create a factory default image when you want to burn a bootable disc that contains your computer's entire operating system as it was delivered to you from the factory. If you wish to have a disc that will allow you to browse the contents and install selected drivers and applications, create a driver and application backup instead — this disc will not be bootable.

## Restore

The restore feature allows you to restore or recover the system from a factory default image or from previously created CD and DVD backups. You can also reinstall applications and drivers for your Acer system.

- 1 Click on **Start, All Programs, Acer, Acer eRecovery Management**.
- 2 Switch to the **Restore** page by clicking **Restore**.



- 3 You can choose to restore the system from a factory default image or reinstall applications and drivers.
- 4 Follow the instructions on screen to complete the process.



## Restore Windows from backup discs



**Note:** This feature requires an external optical disc drive.

To restore Windows from your previously burned backup discs, you will need to insert the first backup disc and enable the **F12 Boot Menu** via the BIOS Setup Utility.

- 1 Turn on your computer and insert the first system recovery disc into the optical disc drive. Restart your computer.
- 2 During startup when the Acer logo shows and the virtual keyboard is displayed, tap the <F2> key to enter **BIOS Setup**, where you can set system parameters.
- 3 Use the left and right arrow keys to select the **Main** submenu.
- 4 Use the up and down arrow keys to select **F12 Boot Menu**.
- 5 Use the <F5> or <F6> key to change **F12 Boot Menu** to **Enabled**.
- 6 Tap the <ESC> key to enter the **Exit** submenu, press the <ENTER> key to **Exit Saving Changes**. Press the **ENTER** key again to select **Yes**. The system will reboot.
- 7 After rebooting, when the Acer logo shows, press the <F12> key to open the **Boot Menu**. Here you can select which device to boot from.
- 8 Use the arrow keys to select **IDE 0\***, then press the <ENTER> key. Windows will be installed from the recovery disc.
- 9 Insert the second recovery disc when prompted, then follow the onscreen prompts to complete the restore.
- 10 Remove the recovery disc from the optical drive once the restore is complete. Do this before rebooting your computer.

If you prefer to set the boot priority for long-term use, you should select the **Boot** submenu.

- 1 Turn on your computer and insert the first system recovery disc into the optical disc drive. Restart your computer.
- 2 During startup when the Acer logo shows and the virtual keyboard is displayed, tap the <F2> key to enter **BIOS Setup**, where you can set system parameters.
- 3 Use the left and right arrow keys to select the **Boot** submenu.
- 4 Use the up and down arrow keys to select the **IDE0** device.
- 5 Use the <F6> key to move the **IDE0** device to the highest boot priority, or use the <F5> key to move other devices to a lower boot priority. Ensure that the **IDE0** device is the highest priority.
- 6 Tap the <ESC> key to enter the **Exit** submenu, press the <ENTER> key to **Exit Saving Changes**. Press the **ENTER** key again to select **Yes**. The system will reboot.
- 7 When you reboot, Windows will be installed from the recovery disc.
- 8 Insert the second recovery disc when prompted, then follow the onscreen prompts to complete the restore.
- 9 Remove the recovery disc from the optical drive once the restore is complete. Do this before rebooting your computer.

# Battery pack

The computer uses a battery pack that gives you long use between charges.

## Battery pack characteristics

The battery pack has the following characteristics:

- Employs current battery technology standards.
- Delivers a battery-low warning.

The battery is recharged whenever you connect the computer to the AC adapter. Your computer supports charge-in-use, enabling you to recharge the battery while you continue to operate the computer. However, recharging with the computer turned off results in a significantly faster charge time.

## Maximizing the battery's life

Like all other batteries, your computer's battery will degrade over time. This means that the battery's performance will diminish with time and use. To maximize your battery's life, you are advised to adhere to the recommendations set out below.

## Conditioning a new battery pack

Before you use a battery pack for the first time, there is a conditioning process that you should follow:

- 1 Connect the AC adapter and fully charge the battery.
- 2 Disconnect the AC adapter.
- 3 Turn on the computer and operate using battery power.
- 4 Fully deplete the battery until the battery-low warning appears.
- 5 Reconnect the AC adapter and fully charge the battery again.

Follow these steps again until the battery has been charged and discharged three times.

Use this conditioning process for all new batteries, or if a battery hasn't been used for a long time.



**Warning:** Do not expose battery packs to temperatures below 0° C (32° F) or above 45° C (113° F). Extreme temperatures may adversely affect the battery pack.

By following the battery conditioning process you condition your battery to accept the maximum possible charge. Failure to follow this procedure will prevent you from obtaining the maximum battery charge, and will also shorten the effective lifespan of the battery.

In addition, the useful lifespan of the battery is adversely affected by the following usage patterns:

- Not discharging and recharging the battery to its extremes, as described above.
- Frequent use; the more you use the battery, the faster it will reach the end of its effective life. A standard computer battery has a life span of about 300 charges.

## Charging the battery

To charge the battery, first make sure that it is correctly installed in the battery bay. Plug the AC adapter into the computer, and connect to a mains power outlet. You can continue to operate your computer on AC power while your battery is charging. However, charging the battery with the computer turned off results in a significantly faster charge time.



**Note:** You are advised to charge the battery before retiring for the day. Charging the battery overnight before traveling enables you to start the next day with a fully-charged battery.

## Checking the battery level

The Windows power meter indicates the current battery level. Rest the cursor over the battery/power icon on the taskbar to see the battery's present charge level.

## Optimizing battery life

Optimizing battery life helps you get the most out of battery operation, prolonging the charge/recharge cycle and improving recharging efficiency. You are advised to follow the suggestions set out below:

- Use AC power whenever possible, reserving battery for on-the-go use.
- Store the battery pack in a cool, dry place. The recommended temperature is 10° C (50° F) to 30° C (86° F). Higher temperatures cause the battery to discharge faster.
- Excessive recharging decreases the battery life.
- Look after your AC adapter and battery.

### *Battery low* warning

When using battery power pay attention to the Windows power meter.



**Warning:** Connect the AC adapter as soon as possible after the *battery-low* warning appears. Data will be lost if the battery becomes fully depleted and the computer shuts down.

When the *battery low* warning appears, the recommended course of action depends on your situation:

Situation	Recommended Action
The AC adapter and a power outlet are available.	<ol style="list-style-type: none"> <li>1. Plug the AC adapter into the computer, and then connect to the mains power supply.</li> <li>2. Save all necessary files.</li> <li>3. Resume work.</li> </ol> <p><b>Turn off the computer if you want to recharge the battery rapidly.</b></p>
The AC adapter or a power outlet is unavailable. You have no spare battery pack.	<ol style="list-style-type: none"> <li>1. Save all necessary files.</li> <li>2. Close all applications.</li> <li>3. Shut down the operating system to turn off the computer.</li> </ol>

# Taking your computer with you

This section gives you tips and hints to consider when moving around or traveling with your computer.

## Disconnecting from the desktop

Follow these steps to disconnect your computer from external accessories:

- 1 Save any open files.
- 2 Shut down the computer.
- 3 Close the display cover.
- 4 Disconnect the cord from the AC adapter.
- 5 Disconnect any external devices.
- 6 Disconnect the Kensington lock if you are using one to secure the computer.

## Moving around

When you are just moving within short distances, for example, from your office desk to a meeting room.

## Preparing the computer

Before moving the computer, close and latch the display cover to place it in Sleep mode. You can now safely take the computer anywhere you go within the building. To bring the computer out of Sleep mode, open the display; then press and release the power button.

If you are taking the computer to a client's office or a different building, you may choose to shut down the computer:

Click on **Start** then click on **Shut Down**.

Or:

You can put the computer in Sleep mode by pressing <Fn> + <F4>. Then close and latch the display.

When you are ready to use the computer again, unlatch and open the display; then press and release the power button.



**Note:** If the Sleep indicator is off, the computer has entered Hibernation mode and is turned off. If the power indicator is off

but the Sleep indicator is on, the computer has entered Sleep mode. In both cases, press and release the power button to turn the computer back on. Note that the computer may enter Hibernation mode after being in Sleep mode for a period of time.

## What to bring to meetings

If your meeting is relatively short, you probably do not need to bring anything with you other than your computer. If your meeting will be longer, or if your battery is not fully charged, you may want to bring the AC adapter with you to plug in your computer in the meeting room.

If the meeting room does not have an electrical outlet, reduce the drain on the battery by putting the computer in Sleep mode. Press <Fn> + <F4> or close the display cover whenever you are not actively using the computer. To resume, open the display (if closed), then press and release the power button.

## Taking the computer home

When you are moving from your office to your home or vice versa.

### Preparing the computer

After disconnecting the computer from your desktop, follow these steps to prepare the computer for the trip home:

- Unplug any external devices that you may have been using.
- Pack the computer in a protective case that can prevent the computer from sliding around and cushion it if it should fall.



**Caution:** Avoid packing items next to the top cover of the computer. Pressure against the top cover can damage the screen.

### What to take with you

Unless you have some items at home, take the following items with you:

- AC adapter and power cord.
- The printed Quick Guide.

### Special considerations

Follow these guidelines to protect your computer while traveling to and from work:

- Minimize the effects of temperature changes by keeping the computer with you.
- If you need to stop for an extended period of time and cannot carry the computer with you, leave the computer in the trunk of the car to avoid exposing the computer to excessive heat.
- Changes in temperature and humidity can cause condensation. Allow the computer to return to room temperature, and inspect the screen for condensation before turning on the computer. If the temperature change is greater than 10° C (18° F), allow the computer to come to room temperature slowly. If possible, leave the computer for 30 minutes in an environment with a temperature between outside and room temperature.

## Setting up a home office

If you frequently work on your computer at home, you may want to purchase a second AC adapter for use at home. With a second AC adapter, you can avoid carrying the extra weight to and from home.

If you use your computer at home for significant periods of time, you might also want to add an external keyboard, monitor or mouse.

## Traveling with the computer

When you are moving within a larger distance, for instance, from your office building to a client's office building or traveling locally.

### Preparing the computer

Prepare the computer as if you were taking it home. Make sure that the battery in the computer is charged. Airport security may require you to turn on your computer when carrying it into the gate area.

### What to take with you

Take the following items with you:

- AC adapter.
- Additional printer driver files if you plan to use another printer.

### Special considerations

In addition to the guidelines for taking the computer home, follow these guidelines to protect your computer while traveling:

- Always take the computer as carry-on luggage.



- If possible, have the computer inspected by hand. Airport security X-ray machines are safe, but do not put the computer through a metal detector.

## Traveling internationally with the computer

When you are moving from country to country.

### Preparing the computer

Prepare the computer as you would normally prepare it for traveling.

### What to bring with you

Bring the following items with you:

- AC adapter.
- Power cords that are appropriate for the country to which you are traveling.
- Additional printer driver files if you plan to use another printer.
- Proof of purchase, in case you need to show it to customs officials.
- International Travelers Warranty passport.

### Special considerations

Follow the same special considerations as when traveling with the computer. In addition, these tips are useful when traveling internationally:

- When traveling in another country, check that the local AC voltage and the AC adapter power cord specifications are compatible. If not, purchase a power cord that is compatible with the local AC voltage. Do not use converter kits sold for appliances to power the computer.
- If you are using the modem, check if the modem and connector is compatible with the telecommunications system of the country you are traveling in.

# Securing your computer

Your computer is a valuable investment that you need to take care of. Learn how to protect and take care of your computer.

Security features include hardware and software locks — a security notch and passwords.

## Using a computer security lock

The computer comes with a Kensington-compatible security slot for a security lock.

Wrap a computer security lock cable around an immovable object such as a table or handle of a locked drawer. Insert the lock into the notch and turn the key to secure the lock. Some keyless models are also available.

## Using passwords

Passwords protect your computer from unauthorized access. Setting these passwords creates several different levels of protection for your computer and data:

- Supervisor Password prevents unauthorized entry into the BIOS utility. Once set, you must enter this password to gain access to the BIOS utility. See **BIOS utility on page 80**.
- User Password secures your computer against unauthorized use. Combine the use of this password with password checkpoints on boot-up and resume from Hibernation for maximum security.
- Password on Boot secures your computer against unauthorized use. Combine the use of this password with password checkpoints on boot-up and resume from Hibernation for maximum security.



**Important!** Do not forget your Supervisor Password! If you forget your password, please get in touch with your dealer or an authorized service center.

## Entering passwords

When a password is set, a password prompt appears in the center of the display screen.

- When the Supervisor Password is set, a prompt appears when you press <F2> to enter the BIOS utility at boot-up.
- Type the Supervisor Password and press <Enter> to access the BIOS utility. If you enter the password incorrectly, a warning message appears. Try again and press <Enter>.
- When the User Password is set and the password on boot parameter is enabled, a prompt appears at boot-up.
- Type the User Password and press <Enter> to use the computer. If you enter the password incorrectly, a warning message appears. Try again and press <Enter>.



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**Important!** You have three chances to enter a password. If you fail to enter the password correctly after three tries, the system halts. Press and hold the power button for four seconds to shut down the computer. Then turn on the computer again, and try again.

## Setting passwords

You can set passwords using the BIOS utility, please refer to **BIOS utility on page 80**.

# Expanding through options

Your computer offers you a complete mobile computing experience.

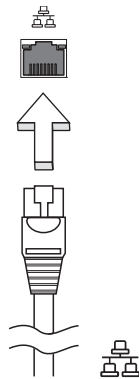
## Connectivity options

Ports allow you to connect peripheral devices to your computer as you would with a desktop PC. For instructions on how to connect different external devices to the computer, read the following section.

### Built-in network feature

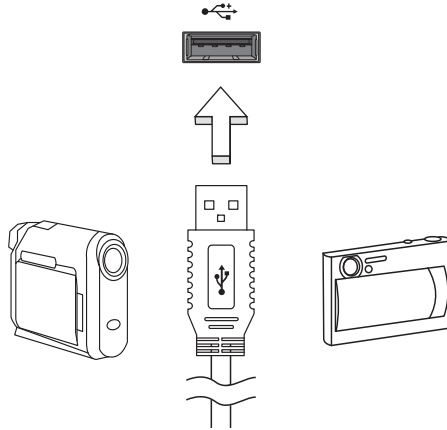
The built-in network feature allows you to connect your computer to an Ethernet-based network.

To use the network feature, connect an Ethernet cable from the Ethernet (RJ-45) port on the chassis of the computer to a network jack or hub on your network.



## Universal Serial Bus (USB)

The USB 3.0 and 2.0 ports are a high-speed serial bus which allows you to connect USB peripherals without taking up system resources.



## High-Definition Multimedia Interface

HDMI (High-Definition Multimedia Interface) is an industry-supported, uncompressed, all-digital audio/video interface. HDMI provides an interface between any compatible digital audio/video source, such as a set-top box, DVD player, and A/V receiver and a compatible digital audio and/or video monitor, such as a digital television (DTV), over a single cable.

Use the HDMI port on your computer to connect with high-end audio and video equipment. Single cable implementation allows tidy setup and fast connection.



## BIOS utility

The BIOS utility is a hardware configuration program built into your computer's BIOS.

Your computer is already properly configured and optimized, and you do not need to run this utility. However, if you encounter configuration problems, you may need to run it.

To activate the BIOS utility, press <F2> during the POST; while the computer logo and pre-boot keyboard are displayed.

## Boot sequence

To set the boot sequence in the BIOS utility, activate the BIOS utility, then select **Boot** from the categories listed at the top of the screen.

## Enable disk-to-disk recovery

To enable disk-to-disk recovery (hard disk recovery), activate the BIOS utility, then select **Main** from the categories listed at the top of the screen. Find **D2D Recovery** at the bottom of the screen and use the <F5> and <F6> keys to set this value to **Enabled**.

## Password

To set a password on boot, activate the BIOS utility, then select **Security** from the categories listed at the top of the screen. Find **Password on boot:** and use the <F5> and <F6> keys to enable this feature.

## Playing DVD movies

If you wish to view DVDs on your computer, you will need to purchase an external DVD player. Please see your retailer for information on external optical disc drives that are compatible with your system.

- 1 Eject the DVD disk.



**Important!** When you launch the DVD player for the first time, the program asks you to enter the region code. DVDs are coded for one of six regions.

Once your DVD drive is set to a region code, it will play DVDs for that region only. You can set the region code a maximum of five times (including the first time), after which the last region code

set will remain permanent. Recovering your hard disk does not reset the number of times the region code has been set.  
Refer to the table below for DVD movie region code information.

- 2 The DVD movie will automatically play after a few seconds.

Region code	Country or region
1	USA, Canada
2	Europe, Middle East, South Africa, Japan
3	Southeast Asia, Taiwan, South Korea
4	Latin America, Australia, New Zealand
5	Former USSR, parts of Africa, India
6	People's Republic of China



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**Note:** To change the region code, insert a DVD movie of a different region into the DVD drive. Please refer to the online help for more information.

# Frequently asked questions

The following is a list of possible situations that may arise during the use of your computer. Easy solutions are provided for each one.

## I turned on the power, but the computer does not start or boot up.


Look at the power indicator:

- If it is not lit, no power is being supplied to the computer. Check the following:
  - If you are using on the battery, it may be low and unable to power the computer. Connect the AC adapter to recharge the battery pack.
  - Make sure that the AC adapter is properly plugged into the computer and to the power outlet.
- If it is lit, check the following:
  - Is a non-bootable (non-system) disk in the external USB disc drive? Remove or replace it with a system disk and press the power button to restart the system.

## Nothing appears on the screen.

The computer's power management system automatically blanks the screen to save power. Press any key to turn the display back on.

If pressing a key does not turn the display back on, three things might be the cause:

- The brightness level might be too low. Press **<Fn> + <F7>** (increase) to adjust the brightness level.
- The display device might be set to an external monitor. Press the display toggle hotkey **<Fn> + ** to toggle the display back to the computer.
- If the Sleep indicator is lit, the computer is in Sleep mode. Press and release the power button to resume.

## No audio is heard from the computer.

Check the following:

- The volume may be muted. In Windows, look at the volume control (speaker) icon on the taskbar. If it is crossed-out, click on the icon and deselect the **Mute all** option.
- The volume level may be too low. In Windows, look at the volume control icon on the taskbar. You can also use the volume control buttons to adjust the volume.



- If headphones, earphones or external speakers are connected to the line-out port on the computer, the internal speakers automatically turn off.

## The printer does not work.

Check the following:

- Make sure that the printer is connected to a power outlet and that it is turned on.
- Make sure that the printer cable is connected securely to a USB port and the printer.

## I want to restore my computer to its original settings without recovery CDs.



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**Note:** If your system is the multilingual version, the operating system and language you choose when you first turn on the system will be the only option for future recovery operations.

This recovery process helps you restore the C: drive with the original software content that is installed when you purchase your computer. Follow the steps below to rebuild your C: drive. (Your C: drive will be reformatted and all data will be erased.) It is important to back up all data files before using this option.

Before performing a restore operation, please check the BIOS settings.

- 1 Check to see if Acer disk-to-disk recovery is enabled or not.
- 2 Make sure the **D2D Recovery** setting in **Main** is **Enabled**.
- 3 Exit the BIOS utility and save changes. The system will reboot.



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**Note:** To activate the BIOS utility, press <F2> during POST.

To start the recovery process:

- 1 Restart the system.
- 2 While the Acer logo is showing, press <Alt> + <F10> at the same time to enter the recovery process.
- 3 Refer to the onscreen instructions to perform system recovery.



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**Important!** This feature occupies a hidden partition on your hard disk.

## Requesting service

### International Travelers Warranty (ITW)

Your computer is backed by an International Travelers Warranty (ITW) that gives you security and peace of mind when traveling. Our worldwide network of service centers are there to give you a helping hand.

An ITW passport comes with your computer. This passport contains all you need to know about the ITW program. A list of available, authorized service centers is in this handy booklet. Read this passport thoroughly.

Always have your ITW passport on hand, especially when you travel, to receive the benefits from our support centers. Place your proof-of-purchase in the flap located inside the front cover of the ITW passport.

If the country you are traveling in does not have an Acer-authorized ITW service site, you can still get in contact with our offices worldwide. Please consult [www.acer.com](http://www.acer.com).

### Before you call

Please have the following information available when you call Acer for online service, and please be at your computer when you call. With your support, we can reduce the amount of time a call takes and help solve your problems efficiently. If there are error messages or beeps reported by your computer, write them down as they appear on the screen (or the number and sequence in the case of beeps).

You are required to provide the following information:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone number: \_\_\_\_\_

Machine and model type: \_\_\_\_\_

Serial number: \_\_\_\_\_

Date of purchase: \_\_\_\_\_

# Troubleshooting

This chapter shows you how to deal with common system problems. Read it before calling a technician if a problem occurs. Solutions to more serious problems require opening up the computer. Do not attempt to open the computer yourself; contact your dealer or authorized service center for assistance.

## Troubleshooting tips

This computer incorporates an advanced design that delivers onscreen error message reports to help you solve problems.

If the system reports an error message or an error symptom occurs, see the table below. If the problem cannot be resolved, contact your dealer. See **"Requesting service"** on page 84.

Error messages	Corrective action
CMOS battery bad	Contact your dealer or an authorized service center.
CMOS checksum error	Contact your dealer or an authorized service center.
Disk boot failure	Insert a system (bootable) disk into an external drive, then press <Enter> to reboot.
Equipment configuration error	Press <F2> (during POST) to enter the BIOS utility, then press <b>Exit</b> in the BIOS utility to reboot.
Hard disk 0 error	Contact your dealer or an authorized service center.
Hard disk 0 extended type error	Contact your dealer or an authorized service center.
I/O parity error	Contact your dealer or an authorized service center.
Keyboard error or no keyboard connected	Contact your dealer or an authorized service center.
Keyboard interface error	Contact your dealer or an authorized service center.
Memory size mismatch	Press <F2> (during POST) to enter the BIOS utility, then press <b>Exit</b> in the BIOS utility to reboot.

If you still encounter problems after going through the corrective measures, please contact your dealer or an authorized service center for assistance. Some problems may be solved using the BIOS utility.

# Regulations and safety notices

## FCC statement

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

## Notice: Shielded cables

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

## Notice: Peripheral devices

Only peripherals (input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this equipment. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

## Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this computer.

## Notice: Canadian users

This Class B digital apparatus complies with Canadian ICES-003.

## Remarque à l'intention des utilisateurs canadiens

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

## Compliant with Russian regulatory certification



ME61

## Modem notices (only for certain models)

### Notice for USA

This equipment complies with Part 68 of the FCC rules. Located on the modem is a label that contains, among other information, the FCC Registration Number and Ringer Equivalence Number (REN) for this equipment. Upon request, you must provide this information to your telephone company.

If your telephone equipment causes harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But, if advance notice is not practical, you will be notified as soon as possible. You will also be informed of your right to file a complaint with the FCC.

Your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

If this equipment should fail to operate properly, disconnect the equipment from the phone line to determine if it is causing the problem. If the problem is with the equipment, discontinue use and contact your dealer or vendor.



**Caution:** To reduce the risk of fire, use only No. 26 AWG or larger UL Listed or CSA Certified Telecommunication Line Cord.

### TBR 21

This equipment has been approved [Council Decision 98/482/EC - "TBR 21"] for single terminal connection to the Public Switched Telephone Network (PSTN). However, due to differences between the individual PSTNs provided in different

countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN termination point. In the event of problems, you should contact your equipment supplier in the first instance. For more information about applicable countries, please refer to **"Regulations and safety notices" on page 86**

## Notice for Australia

For safety reasons, only connect headsets with a telecommunications compliance label. This includes customer equipment previously labeled as permitted or certified.

## Notice for New Zealand

- 1 The grant of a Telepermit for any item of terminal equipment indicates only that Telecom has accepted that the item complies with minimum conditions for connection to its network. It indicates no endorsement of the product by Telecom, nor does it provide any sort of warranty. Above all, it provides no assurance that any item will work correctly in all respects with another item of Telepermitted equipment of a different make or model, nor does it imply that any product is compatible with all of Telecom's network services.
- 2 This equipment is not capable, under all operating conditions, of correct operation at the higher speeds for which it is designed. Telecom will accept no responsibility should difficulties arise in such circumstances.
- 3 Some parameters required for compliance with Telecom's Telepermit requirements are dependent on the equipment (PC) associated with this device. The associated equipment shall be set to operate within the following limits for compliance with Telecom's Specifications:
  - a There shall be no more than 10 call attempts to the same number within any 30 minute period for any single manual call initiation, and
  - b The equipment shall go on-hook for a period of not less than 30 seconds between the end of one attempt and the beginning of the next call attempt.
- 4 Some parameters required for compliance with Telecom's Telepermit requirements are dependent on the equipment (PC) associated with this device. In order to operate within the limits for compliance with Telecom's specifications, the associated equipment shall be set to ensure that automatic calls to different numbers are spaced such that there is not less than 5 seconds between the end of one call attempt and the beginning of another.
- 5 This equipment shall not be set up to make automatic calls to Telecom's 111 Emergency Service.

- 6 This device is equipped with pulse dialing while the Telecom standard is DTMF tone dialing. There is no guarantee that Telecom lines will always continue to support pulse dialing.
- 7 Use of pulse dialing, when this equipment is connected to the same line as other equipment, may give rise to bell tinkle or noise and may also cause a false answer condition. Should such problems occur, the user should NOT contact the telecom Fault Service.
- 8 This equipment may not provide for the effective hand-over of a call to another device connected to the same line.
- 9 Under power failure conditions this appliance may not operate. Please ensure that a separate telephone, not dependent on local power, is available for emergency use.

## LCD pixel statement

The LCD unit is produced with high-precision manufacturing techniques. Nevertheless, some pixels may occasionally misfire or appear as black or red dots. This has no effect on the recorded image and does not constitute a malfunction.

## Radio device regulatory notice



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**Note:** Below regulatory information is for models with wireless LAN and / or Bluetooth only.

## General

To prevent radio interference to the licensed service, this device is intended to be operated indoors.

This product complies with the radio frequency and safety standards of any country or region in which it has been approved for wireless use. Depending on configurations, this product may or may not contain wireless radio devices (such as wireless LAN and/or Bluetooth modules). Below information is for products with such devices.

## Declaration of Conformity for EU countries

Hereby, Acer, declares that this computer is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

## List of applicable countries

EU member states as of July 2009 are: Belgium, Denmark, Germany, Greece, Spain, France, Ireland, Italy, Luxembourg, the Netherlands, Austria, Portugal, Finland, Sweden, United Kingdom, Estonia, Latvia, Lithuania, Poland, Hungary, Czech Republic, Slovak Republic, Slovenia, Cyprus, Malta, Bulgaria and Romania. Usage allowed in the countries of European Union, as well as Norway, Switzerland, Iceland and Liechtenstein. This device must be used in strict accordance with the regulations and constraints in the country of use. For further information, please contact local office in the country of use. Please see <http://ec.europa.eu/enterprise/rtte/implem.htm> for the latest country list.

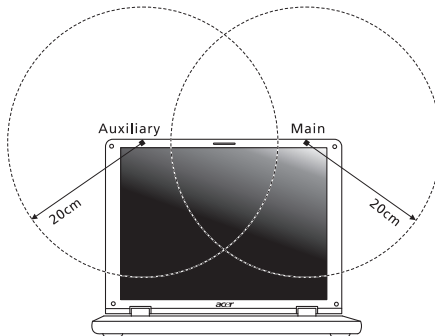
## The FCC RF safety requirement

The radiated output power of the wireless LAN Mini PCI Card and Bluetooth card is far below the FCC radio frequency exposure limits. Nevertheless, the computer series shall be used in such a manner that the potential for human contact during normal operation is minimized as follows:

- 1 Users are requested to follow the RF safety instructions on wireless option devices that are included in the user's manual of each RF option device.



**Caution:** To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm (8 inches) must be maintained between the antenna for the integrated wireless LAN Mini PCI Card built in to the screen section and all persons.



**Note:** The wireless Mini PCI adapter implements a transmission diversity function. The function does not emit radio frequencies simultaneously from both antennas. One of the antennas is



selected automatically or manually (by users) to ensure good quality radiocommunication.

- 2 This device is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range. FCC requires this product to be used indoors for the frequency range 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems.
- 3 High power radar are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and/or damage this device.
- 4 An improper installation or unauthorized use may cause harmful interference to radio communications. Also any tampering of the internal antenna will void the FCC certification and your warranty.

## Canada — Low-power license-exempt radio communication devices (RSS-210)

### Exposure of humans to RF fields (RSS-102)

The computer series employs low gain integral antennas that do not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's website at [www.hc-sc.gc.ca/rpb](http://www.hc-sc.gc.ca/rpb).

This device complies with RSS210 of Industry Canada.

This Class B digital apparatus complies with Canadian ICES-003, Issue 4, and RSS-210, No 4 (Dec 2000) and No 5 (Nov 2001).

Cet appareil numérique de la classe B est conforme à la norme NMB-003, No. 4, et CNR-210, No 4 (Dec 2000) et No 5 (Nov 2001).

"To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing."

« Pour empêcher que cet appareil cause du brouillage au service faisant l'objet d'une licence, il doit être utilisé à l'intérieur et devrait être placé loin des fenêtres afin de fournir un écran de blindage maximal. Si le matériel (ou son antenne d'émission) est installé à l'extérieur, il doit faire l'objet d'une licence.

Caution: When using IEEE 802.11a wireless LAN, this product is restricted to indoor use due to its operation in the 5.15- to 5.25-GHz frequency range. Industry Canada requires this product to be used indoors for the frequency range of 5.15 GHz to 5.25 GHz to reduce the potential for harmful interference to co-channel mobile satellite systems. High power radar is allocated as the

primary user of the 5.25- to 5.35-GHz and 5.65 to 5.85-GHz bands. These radar stations can cause interference with and/or damage to this device.

The maximum allowed antenna gain for use with this device is 6dBi in order to comply with the E.I.R.P limit for the 5.25- to 5.35 and 5.725 to 5.85 GHz frequency range in point-to-point operation.

## LCD panel ergonomic specifications

Design viewing distance	500 mm
Design inclination angle	0.0°
Design azimuth angle	90.0°
Viewing direction range class	Class IV
Screen tilt angle	85.0°
Design screen illuminance	<ul style="list-style-type: none"> <li>• Illuminance level: [250 + (250cos<math>\alpha</math>)] lx where <math>\alpha = 85^\circ</math></li> <li>• Color: Source D65</li> </ul>
Reflection class of LCD panel (positive and negative polarity)	<ul style="list-style-type: none"> <li>• Ordinary LCD: Class I</li> <li>• Protective LCD: Class III</li> </ul>
Image polarity	Both
Reference white:	<ul style="list-style-type: none"> <li>• Y<sub>n</sub></li> </ul>
Pre-setting of luminance and color temperature @ 6500K (tested under BM7)	<ul style="list-style-type: none"> <li>• u'<sub>n</sub></li> <li>• v'<sub>n</sub></li> </ul>
Pixel fault class	Class II